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* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS	3	MAR 16	CASREACT coverage extended
NEWS	4	MAR 20	MARPAT now updated daily
NEWS	5	MAR 22	LWPI reloaded
NEWS	6	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS	7	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS	8	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS	9	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS	10	APR 30	CA/CAPLUS enhanced with 1870-1889 U.S. patent records
NEWS	11	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS	12	MAY 01	New CAS web site launched
NEWS	13	MAY 08	CA/CAPLUS Indian patent publication number format defined
NEWS	14	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	15	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	16	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	17	MAY 21	CA/CAPLUS enhanced with additional kind codes for German patents
NEWS	18	MAY 22	CA/CAPLUS enhanced with IPC reclassification in Japanese patents
NEWS	19	JUN 27	CA/CAPLUS enhanced with pre-1967 CAS Registry Numbers
NEWS	20	JUN 29	STN Viewer now available
NEWS	21	JUN 29	STN Express, Version 8.2, now available
NEWS	22	JUL 02	LEMBASE coverage updated
NEWS	23	JUL 02	LMEDLINE coverage updated
NEWS	24	JUL 02	SCISEARCH enhanced with complete author names
NEWS	25	JUL 02	CHEMCATS accession numbers revised
NEWS	26	JUL 02	CA/CAPLUS enhanced with utility model patents from China
NEWS	27	JUL 16	CAPLUS enhanced with French and German abstracts
NEWS	28	JUL 18	CA/CAPLUS patent coverage enhanced
NEWS EXPRESS	29	JUNE 2007:	CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS LOGIN			Welcome Banner and News Items
NEWS IPC8			For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:15:22 ON 18 JUL 2007

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 11:15:40 ON 18 JUL 2007

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STRUCTURE FILE UPDATES: 17 JUL 2007 HIGHEST RN 942577-08-4

DICTIONARY FILE UPDATES: 17 JUL 2007 HIGHEST RN 942577-08-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

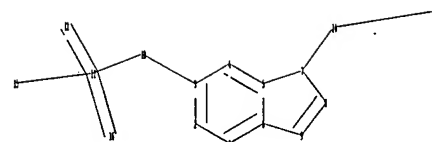
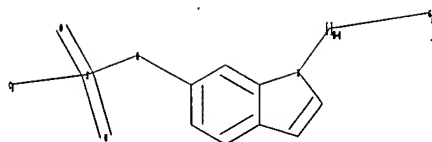
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10566101a.str



chain nodes :
 10 11 12 14 15 16 17
 ring nodes :
 1 2 3 4 5 6 7 8 9
 chain bonds :
 3-10 7-14 10-11 11-12 11-15 11-16 14-17
 ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
 exact/norm bonds :
 3-10 5-7 7-8 7-14 10-11 11-12 11-15 11-16 14-17
 exact bonds :
 6-9 8-9
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6
 isolated ring systems :
 containing 1 :

G1: Cy, N

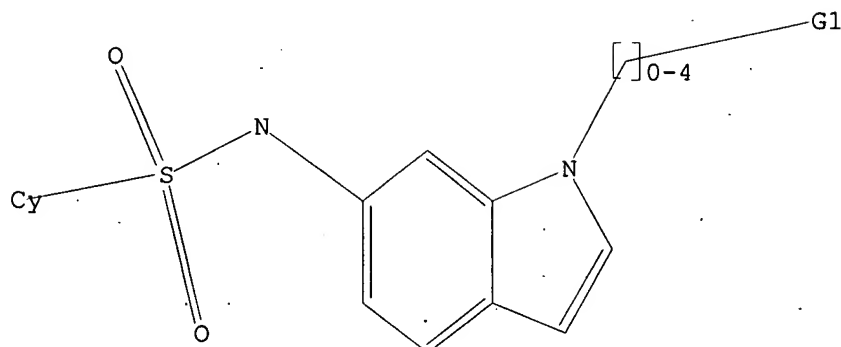
Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
 11:CLASS 12:CLASS 14:CLASS 15:Atom 16:CLASS 17:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 Cy,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 11:15:58 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 229 TO ITERATE

100.0% PROCESSED 229 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 3673 TO 5487

PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 11:16:02 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 4067 TO ITERATE

100.0% PROCESSED 4067 ITERATIONS

20 ANSWERS

SEARCH TIME: 00.00.01

L3 20 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

172.31

FILE 'CAPLUS' ENTERED AT 11:16:07 ON 18 JUL 2007

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FILE COVERS 1907 - 18 Jul 2007 VOL 147 ISS 4
FILE LAST UPDATED: 17 Jul 2007 (20070717/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l3 full

L4 8 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:410811 CAPLUS

DOCUMENT NUMBER: 146:421837

TITLE: Preparation of fused pyrrole derivatives as GR modulators

INVENTOR(S): Sone, Toshihiko; Sawaki, Rieko; Nakajima, Tomoko

PATENT ASSIGNEE(S): Dainippon Sumitomo Pharma Co., Ltd., Japan

SOURCE: PCT Int. Appl., 403pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007040166	A1	20070412	WO 2006-JP319426	20060929
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

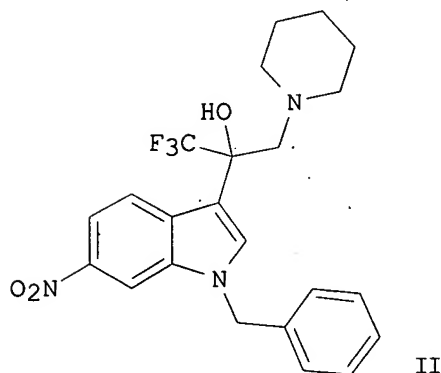
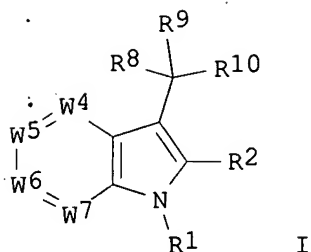
PRIORITY APPLN. INFO.:

JP 2005-286576

A 20050930

OTHER SOURCE(S): MARPAT 146:421837

GI



AB Title compds. I [R1 = H, (un)substituted alkyl, (un)substituted alkenyl, etc.; R2 = H, halo, carboxyl, etc.; -W4:W5-W6:W7- = -CR4:CR5-CR6:CR7-, -N:CR5-CR6:CR7-, -CR4:N-CR6:CR7-, etc.; R4-R7 = -E-A; E = single bond, -O-, -CO-, etc.; when E is a single bond, A is H, halo, cyano, etc.; when E is -O-, -CO-, etc., A is H, (un)substituted alkyl, (un)substituted cycloalkyl, etc.; R8 = -OR11, -SR11, -N(R11)R12; R11, R12 = H, (un)substituted alkyl; R9 = alkyl substituted with halo, cycloalkyl substituted with halo; R10 = -[C(R13)R14]n-R15; R13, R14 = H, alkyl, halo; R13 and R14 may combine to form a oxo group; or R13 and R14, together with the carbon atom to which they are attached, form a cycloalkane (one or two -CH2- in cycloalkane may be replaced with -NH-, -S-, -S(:O)-, etc.); n = 0-10; R15 = hydroxy, (un)substituted alkyl, (un)substituted alkenyl, etc.], prodrugs or pharmaceutically acceptable salts were prepared. For example, reaction of 1-(1-benzyl-6-nitro-1H-indol-3-yl)-2,2,2-trifluoroethanone, e.g., prepared from 6-nitroindole in 2 steps, with trimethylphosphonium iodide followed by treatment with piperidine afforded compound II. In glucocorticoid receptor (GR) binding assays, compound II exhibited the inhibitory activity of 92% at 100 nM. Compds. I are claimed useful for the treatment of inflammation and diabetes.

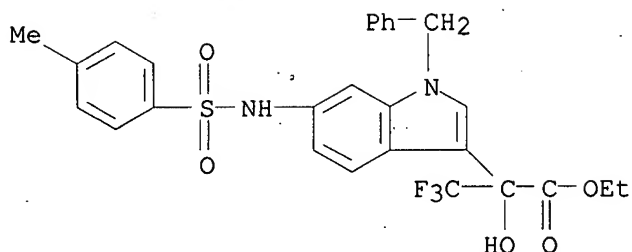
IT 934224-55-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of fused pyrrole derivs. as GR modulators for treatment of inflammation and diabetes)

RN 934224-55-2 CAPLUS

CN 1H-Indole-3-acetic acid, α -hydroxy-6-[[4-methylphenyl)sulfonyl]amino]-1-(phenylmethyl)- α -(trifluoromethyl)-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:470334 CAPLUS

DOCUMENT NUMBER: 143:125834

TITLE: A Three-Dimensional Pharmacophore Model for 5-Hydroxytryptamine₆ (5-HT₆) Receptor Antagonists

AUTHOR(S): Lopez-Rodriguez, Maria L.; Benhamu, Bellinda; de la Fuente, Tania; Sanz, Arantxa; Pardo, Leonardo; Campillo, Mercedes

CORPORATE SOURCE: Departamento de Quimica Organica I, Facultad de Ciencias Quimicas, Universidad Complutense, Madrid, E-28040, Spain

SOURCE: Journal of Medicinal Chemistry (2005), 48(13), 4216-4219

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Forty-five structurally diverse 5-hydroxytryptamine₆ receptor (5-HT₆R) antagonists were selected to develop a 3D pharmacophore model with the Catalyst software. The structural features for antagonism at this receptor are a pos. ionizable atom interacting with Asp3.32, a hydrogen bond acceptor group interacting with Ser5.43 and Asn6.55, a hydrophobic site interacting with residues in a hydrophobic pocket between transmembranes 3, 4, and 5, and an aromatic-ring hydrophobic site interacting with Phe6.52.

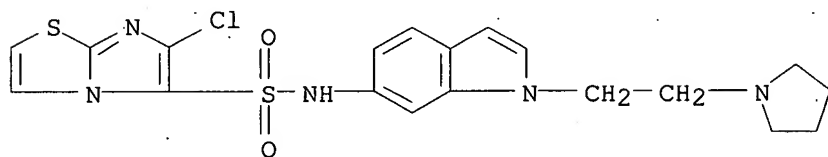
IT 753020-94-9

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(three-dimensional pharmacophore model for 5-HT₆ receptor antagonists)

RN 753020-94-9 CAPLUS

CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:136598 CAPLUS

DOCUMENT NUMBER: 142:240323

TITLE: Active substance combination comprising a compound with NPY receptor affinity and a compound with 5-HT₆

receptor affinity

INVENTOR(S): Torrens Jover, Antoni; Mas Prio, Josep; Dordal Zuera, Alberto; Codony Soler, Xavier; Merce Vidal, Ramon; Aurelio Castrillo Perez, Jose; Frigola Constansa, Jordi; Buschmann, Helmut-Heinrich

PATENT ASSIGNEE(S): Laboratorios del Esteve S. A., Spain

SOURCE: PCT Int. Appl., 427 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005014045	A1	20050217	WO 2004-EP8514	20040729
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
ES 2228268	A1	20050401	ES 2003-1815	20030730
ES 2228268	B1	20060701		
AU 2004262488	A1	20050217	AU 2004-262488	20040729
CA 2534099	A1	20050217	CA 2004-2534099	20040729
EP 1660131	A1	20060531	EP 2004-741321	20040729
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
US 2007009597	A1	20070111	US 2006-566402	20060705
PRIORITY APPLN. INFO.:			ES 2003-1815	A 20030730
			WO 2004-EP8514	W 20040729
OTHER SOURCE(S):			CASREACT 142:240323; MARPAT 142:240323	
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The present invention relates to an active substance combination comprising at least one compound I [R1-R4 = H, halo, alkyl, etc.; R5 = H, alkyl, (un)saturated cycloalkyl; R6-R9 = H, alkyl, (un)saturated cycloalkyl, etc.;

A = CHR18, CHR18CH2; B = alkyl, (un)saturated cycloalkyl, etc.; R10 = H, alkyl, (un)saturated cycloalkyl, etc.; R11 = alkyl, (un)saturated cycloalkyl, etc.; NR10R11 = (un)saturated heterocyclyl; R18 = H, alkyl, (un)saturated cycloalkyl, etc.] with neuropeptide Y-receptor affinity, preferably neuropeptide Y5-receptor affinity, and at least one compound with 5-HT6 receptor affinity (such as II [R1 = H, alkyl, Ph, CH2PH; R2 = NR4R5, (un)saturated (hetero)cycloalkyl, etc.; R3 = H, alkyl; R4, R5 = H, alkyl; or NR4R5 = (un)saturated heterocyclyl; A = (un)substituted (hetero)aryl; n = 0-4]), a medicament comprising said active substance combination, and the use of said active substance combination for the manufacture of a medicament. Synthesis of amides I and sulfonamides such as II is described in examples. E.g., a multi-step synthesis of III.HCl, starting from 1-(tert-butoxycarbonyl)-4-piperidinone and Me anthranilate, was given. The amides I and sulfonamides such as II were tested against neuropeptide Y5 and 5-HT6 binding (data given for representative compds.).

IT 753020-88-1P 753020-90-5P 753020-91-6P

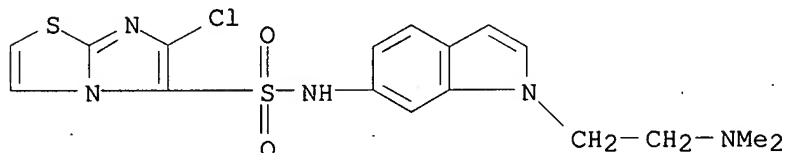
753020-94-9P 753020-96-1P 753020-97-2P
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844477-70-9P 844477-72-1P 844477-79-8P
844477-84-5P 844477-87-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(preparation of amides and sulfonamides as components of active combination
with NPY receptor affinity and 5-HT6 receptor affinity)

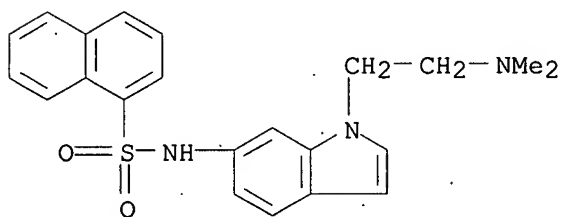
RN 753020-88-1 CAPLUS

CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-
(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



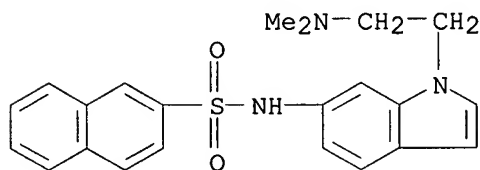
RN 753020-90-5 CAPLUS

CN 1-Naphthalenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-
(9CI) (CA INDEX NAME)



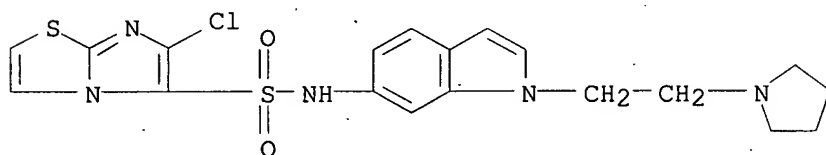
RN 753020-91-6 CAPLUS

CN 2-Naphthalenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-
(9CI) (CA INDEX NAME)



RN 753020-94-9 CAPLUS

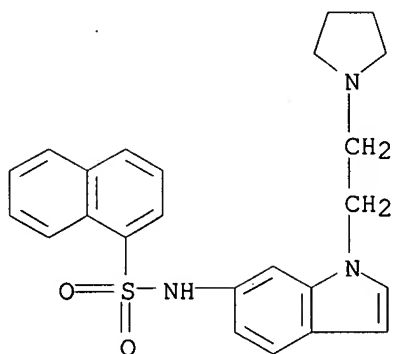
CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(1-
pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



RN 753020-96-1 CAPLUS

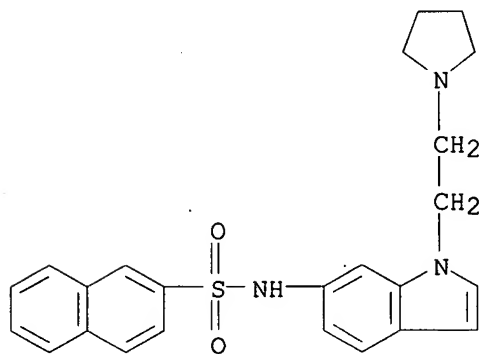
CN 1-Naphthalenesulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]-

(9CI) (CA INDEX NAME)



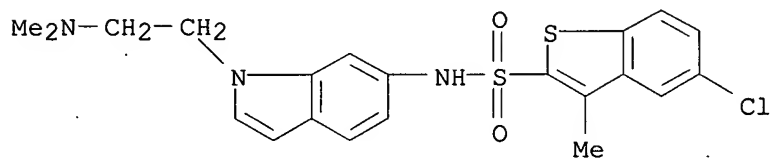
RN 753020-97-2 CAPLUS

CN 2-Naphthalenesulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]-
(9CI) (CA INDEX NAME)



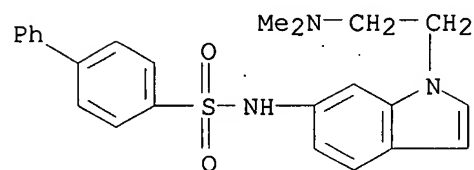
RN 844477-59-4 CAPLUS

CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-3-methyl- (9CI) (CA INDEX NAME)



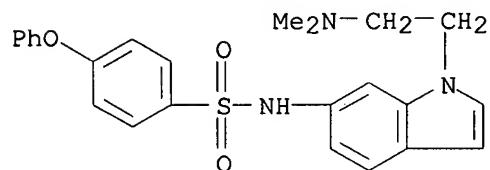
RN 844477-64-1 CAPLUS

CN [1,1'-Biphenyl]-4-sulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



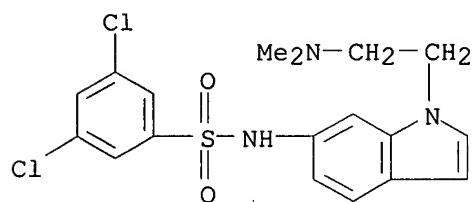
RN 844477-68-5 CAPLUS

CN Benzenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-4-phenoxy-
(9CI) (CA INDEX NAME)



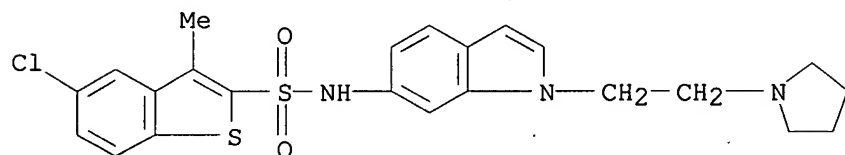
RN 844477-70-9 CAPLUS

CN Benzenesulfonamide, 3,5-dichloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



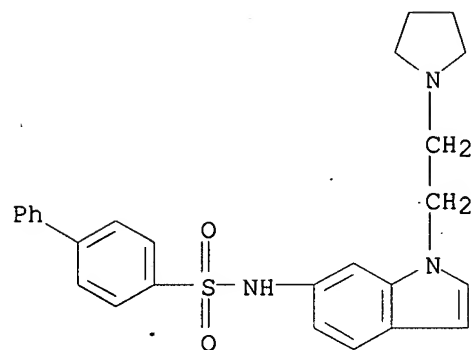
RN 844477-72-1 CAPLUS

CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-3-methyl-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



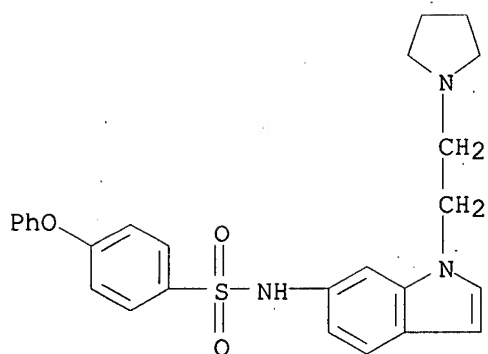
RN 844477-79-8 CAPLUS

CN [1,1'-Biphenyl]-4-sulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



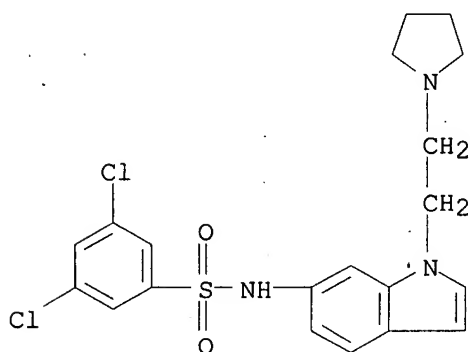
RN 844477-84-5 CAPLUS

CN Benzenesulfonamide, 4-phenoxy-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



RN 844477-87-8 CAPLUS

CN Benzenesulfonamide, 3,5-dichloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:136568 CAPLUS

DOCUMENT NUMBER: 142:240322

TITLE: Active substance combination comprising a compound with NPY receptor affinity and a compound with 5-HT6 receptor affinity

INVENTOR(S): Torrens Jover, Antoni; Mas Prio, Josep; Dordal Zuera, Alberto; Codony Soler, Xavier; Merce Vidal, Ramon; Aurelio Castrillo Perez, Jose; Frigola Constansa, Jordi; Buschmann, Helmut-Heinrich

PATENT ASSIGNEE(S): Laboratorios del Esteve S. A., Spain

SOURCE: PCT Int. Appl., 451 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005014000	A1	20050217	WO 2004-EP8515	20040729
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				

TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG

ES 2228267	A1	20050401	ES 2003-1814	20030730
ES 2228267	B1	20060701		
AU 2004262489	A1	20050217	AU 2004-262489	20040729
CA 2534100	A1	20050217	CA 2004-2534100	20040729
EP 1648468	A1	20060426	EP 2004-763612	20040729

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US 2007059364	A1	20070315	US 2006-566100	20061026
PRIORITY APPLN. INFO.:			ES 2003-1814	A 20030730
			WO 2004-EP8515	W 20040729

OTHER SOURCE(S): MARPAT 142:240322
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The present invention relates to an active substance combination comprising at least one compound I [R1-R4 = H, halo, alkyl, etc.; R5 = H, alkyl, (un)saturated (hetero)cycloalkyl; R6-R9 = H, alkyl, (un)saturated (hetero)cycloalkyl, etc.; A = CHR18, CHR18CH2; R10 = H, alkyl, (un)saturated cycloalkyl, etc.; R11 = alkyl, (un)saturated cycloalkyl, etc.; NR10R11 = (un)saturated heterocyclyl; R18 = H, alkyl, (un)saturated cycloalkyl, etc.]

with

neuropeptide Y-receptor affinity, preferably neuropeptide Y5-receptor affinity, and at least one compound with 5-HT6 receptor affinity (such as II [R1 = H, alkyl, Ph, CH2PH; R2 = NR4R5, (un)saturated (hetero)cycloalkyl, etc.; R3 = H, alkyl; R4, R5 = H, alkyl; or NR4R5 = (un)saturated heterocyclyl; A = (un)substituted (hetero)aryl; n = 0-4]), a medicament comprising said active substance combination, and the use of said active substance combination for the manufacture of a medicament. Synthesis of amides I and sulfonamides such as II is described in examples. Thus, reacting 6-chloro-1-(4-piperidinyl)-1,4-dihydro-2H-3,1-benzoxazinone hydrochloride with 2-(2-chloroacetamide)-2',5-dichlorobenzophenone in the presence of K2CO3 in DMF followed by treating of the free base with HCl/EtOH afforded 61% III.HCl. The amides I and sulfonamides such as II were tested against neuropeptide Y5 and 5-HT6 binding (data given for representative compds.).

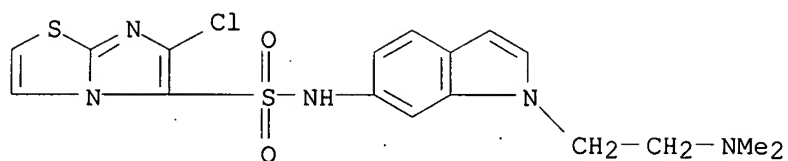
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 844477-70-9P 844477-72-1P 844477-79-8P
 844477-84-5P 844477-87-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of amides and sulfonamides as components of active combination with NPY receptor affinity and 5-HT6 receptor affinity)

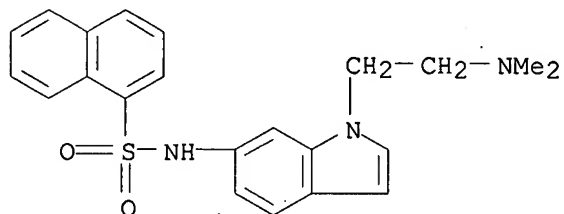
RN 753020-88-1 CAPLUS

CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



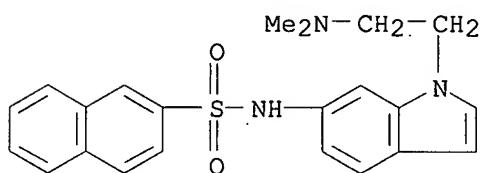
RN 753020-90-5 CAPLUS

CN 1-Naphthalenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-
(9CI) (CA INDEX NAME)



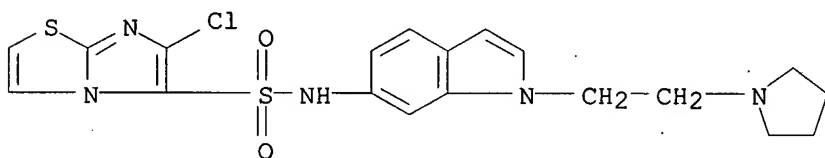
RN 753020-91-6 CAPLUS

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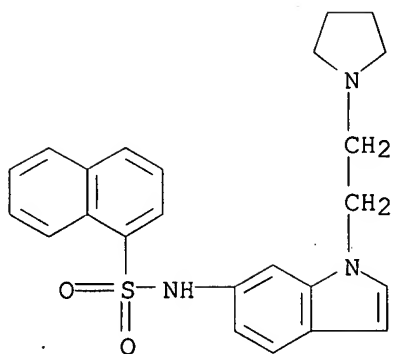
RN 753020-94-9 CAPLUS

CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



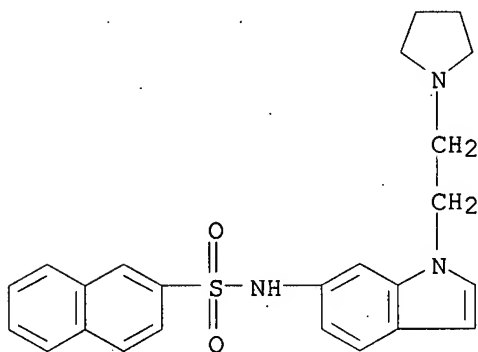
RN 753020-96-1 CAPLUS

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(9CI) (CA INDEX NAME)



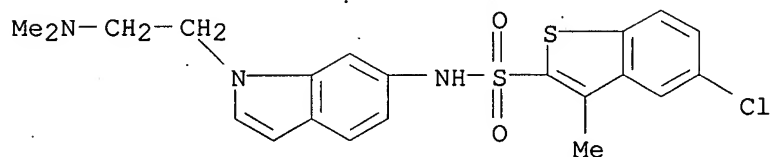
RN 753020-97-2 CAPLUS

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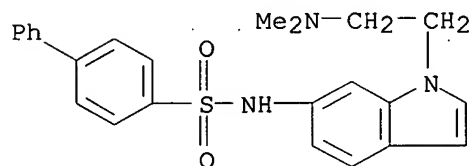
RN 844477-59-4 CAPLUS

CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-3-methyl- (9CI) (CA INDEX NAME)



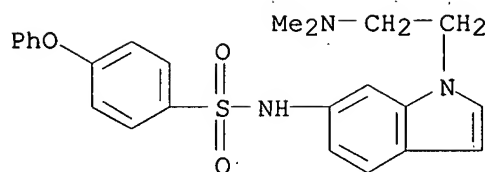
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CN [1,1'-Biphenyl]-4-sulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



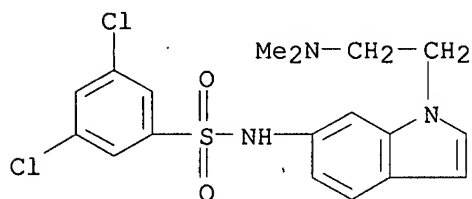
RN 844477-68-5 CAPLUS

CN Benzenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-4-phenoxy- (9CI) (CA INDEX NAME)



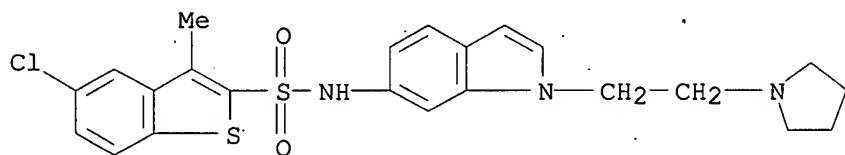
RN 844477-70-9 CAPLUS

CN Benzenesulfonamide, 3,5-dichloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



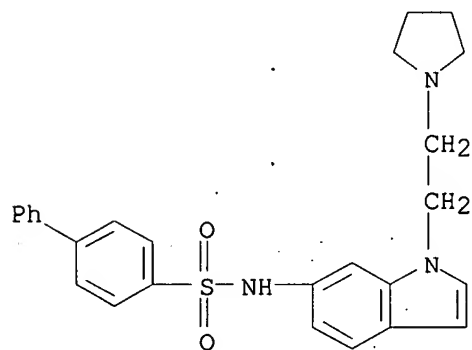
RN 844477-72-1 CAPLUS

CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-3-methyl-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



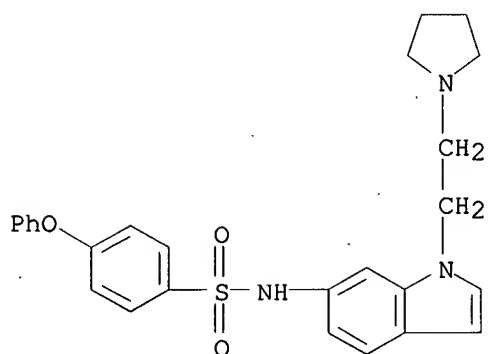
RN 844477-79-8 CAPLUS

CN [1,1'-Biphenyl]-4-sulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



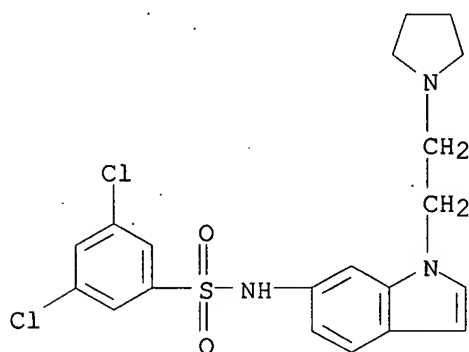
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CN Benzenesulfonamide, 4-phenoxy-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



RN 844477-87-8 CAPLUS

CN Benzenesulfonamide, 3,5-dichloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:136548 CAPLUS

DOCUMENT NUMBER: 142:240309

TITLE: Preparation of indol-6-ylsulfonamide derivatives and their use as 5-HT6 modulators

INVENTOR(S): Merce Vidal, Ramon; Codony Soler, Xavier; Dordal Zuera, Alberto

PATENT ASSIGNEE(S): Laboratorios del Esteve S. A., Spain

SOURCE: PCT Int. Appl., 92 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005013976	A1	20050217	WO 2004-EP8510	20040729
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				

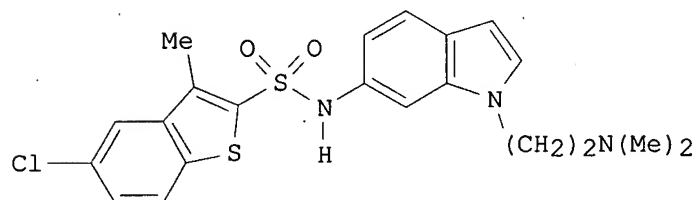
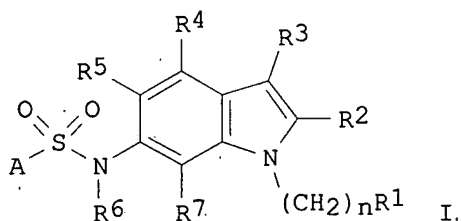
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SN, TD, TG

ES 2222832	A1	20050201	ES 2003-1810	20030730
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AU 2004262484	A1	20050217	AU 2004-262484	20040729
CA 2533970	A1	20050217	CA 2004-2533970	20040729
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CN 1832738	A	20060913	CN 2004-8002271	20040729
BR 2004013112	A	20061003	BR 2004-13112	20040729
JP 2007500164	T	20070111	JP 2006-521528	20040729
NO 2006000682	A	20060210	NO 2006-682	20060210
US 2007043041	A1	20070222	US 2006-566101	20060810

PRIORITY APPLN. INFO.:

ES 2003-1810 A 20030730
WO 2004-EP8510 W 20040729

OTHER SOURCE(S): CASREACT 142:240309; MARPAT 142:240309
GI



II

AB Title compds. I [R1 = NR8R9 radical or a (un)saturated, optionally at least monosubstituted cycloaliph. radical which may contain at least one heteroatom; R2-5,7 independently = H, halo, NO2, alkoxy, etc.; R6 = H or (un)saturated aliphatic radical optionally at least monosubstituted; R8 and R9

=

H or (un)saturated aliphatic radical optionally at least monosubstituted with provisions, or R8 and R9 together with the N atom form a (un)saturated heterocyclic ring optionally at least monosubstituted; A = mono or polycyclic aromatic ring system which may be bonded via (un)substituted alkylene, alkenylene or alkynylene group; n = 0-4], and their pharmaceutically acceptable salts, are prepared and disclosed as useful for medicaments in human and/or veterinary therapeutics for diseases/disorders related to 5-HT6 receptor. Thus, e.g., II was prepared by the reaction of 5-chloro-3-methylbenzo[b]thiophene-2-sulfonyl chloride with 6-amino-1-(2-dimethylaminoethyl)-1H-indole. Selected compds. of the invention were evaluated for binding with 5-HT6 receptor; % inhibition values reported to range from 86.9-98.6 at 10-6M concns.

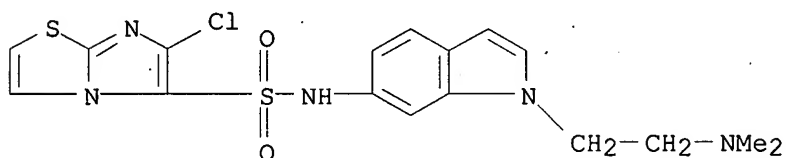
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844477-70-9P 844477-72-1P 844477-79-8P
844477-84-5P 844477-87-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of indol-6-ylsulfonamide derivs. as 5-HT6 receptor modulators)

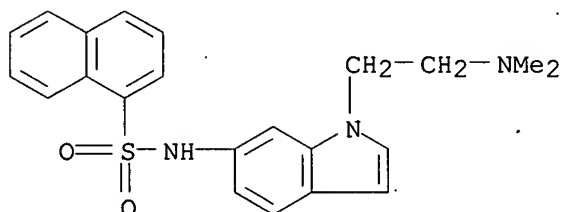
RN 753020-88-1 CAPLUS

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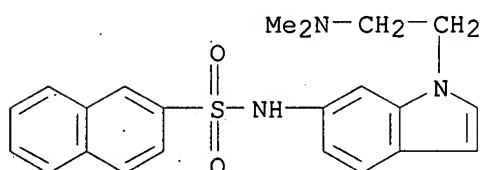
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CN 1-Naphthalenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



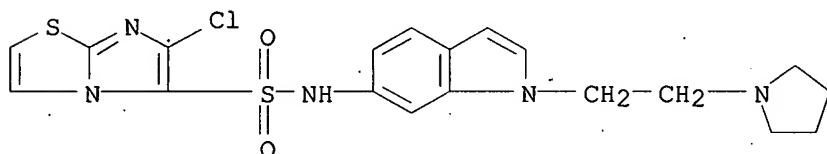
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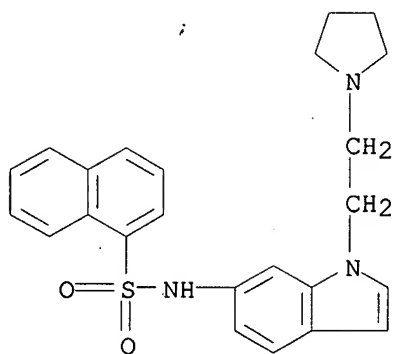
RN 753020-94-9 CAPLUS

CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



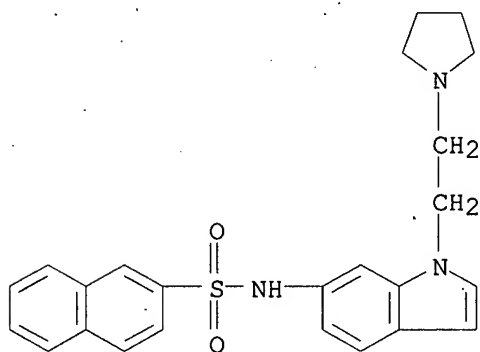
RN 753020-96-1 CAPLUS

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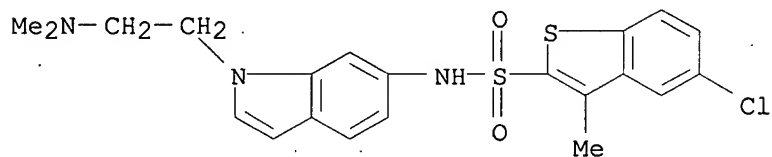
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CN 2-Naphthalenesulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



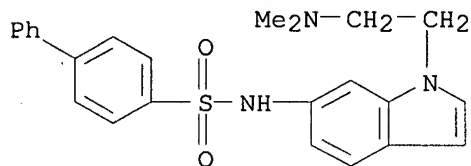
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CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-3-methyl- (9CI) (CA INDEX NAME)



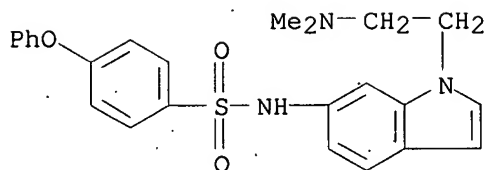
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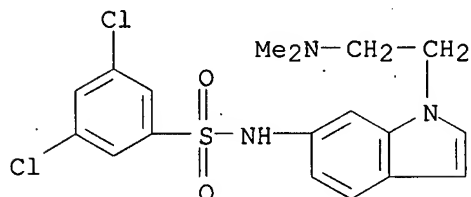
RN 844477-68-5 CAPLUS

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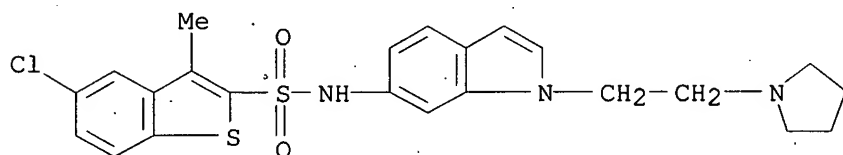
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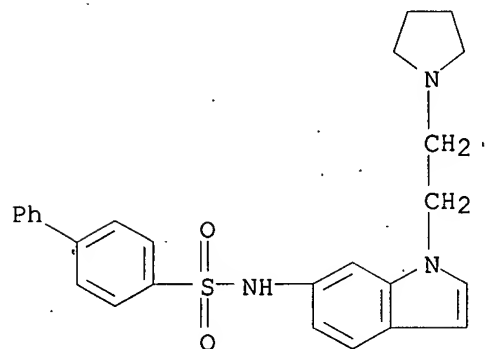
RN 844477-72-1 CAPLUS

CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-3-methyl-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



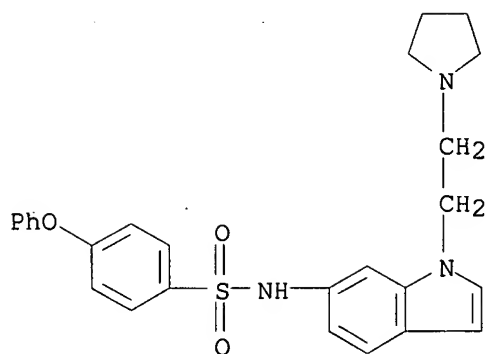
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CN [1,1'-Biphenyl]-4-sulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)

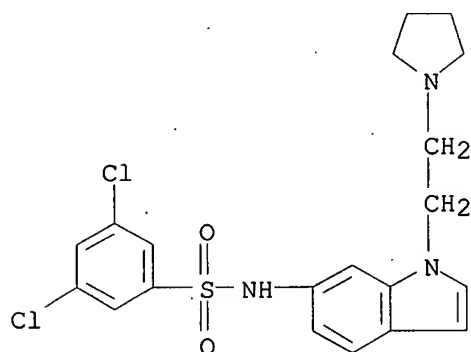


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RN 844477-87-8 CAPLUS
 CN Benzenesulfonamide, 3,5-dichloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:725572 CAPLUS

DOCUMENT NUMBER: 142:211383

TITLE: Medicinal Chemistry Driven Approaches Toward Novel and Selective Serotonin 5-HT6 Receptor Ligands

AUTHOR(S): Holenz, Joerg; Merce, Ramon; Diaz, Jose Luis; Guitart, Xavier; Codony, Xavier; Dordal, Alberto; Romero, Gonzalo; Torrens, Antoni; Mas, Josep; Andaluz, Blas; Hernandez, Susana; Monroy, Xavier; Sanchez, Elisabeth; Hernandez, Enrique; Perez, Raquel; Cubi, Roger; Sanfeliu, Olga; Buschmann, Helmut

CORPORATE SOURCE: Departments of Medicinal Chemistry, Discovery Biology and Discovery Chemistry, Laboratorios Dr. Esteve S.A., Barcelona, 08041, Spain

SOURCE: Journal of Medicinal Chemistry (2005), 48(6), 1781-1795

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:211383

AB Based on a medicinal chemical guided hypothetical pharmacophore model, novel series of indolyl sulfonamides have been designed and prepared as selective and high-affinity serotonin 5-HT6 receptor ligands. Furthermore, based on a screening approach of a discovery library, a series of benzoxazinepiperidinyl sulfonamides were identified as selective 5-HT6

ligands. Many of the compds. described in this paper possess excellent affinities, displaying pKi values greater than 8 (some even >9) and high selectivities against a wide range (>50) of other CNS relevant receptors. First, structure-affinity relationships of these ligands are discussed. In terms of functionality, high-affinity antagonists, as well as agonists and even partial agonists, were prepared. Compds. 19c and 19g represent the highest-affinity 5-HT6 agonists ever reported in the literature. These valuable tool compds. should allow for the detailed study of the role of the 5-HT6 receptor in relevant animal models of disorders such as cognition deficits, depression, anxiety, or obesity.

IT 753020-88-1P 753020-89-2P 753020-90-5P

753020-91-6P 753020-93-8P 753020-94-9P

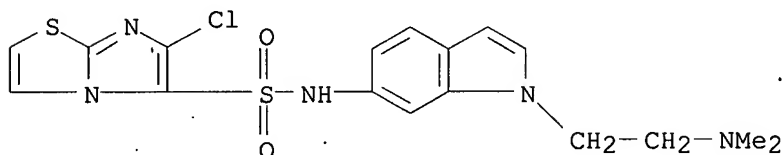
753020-96-1P 753020-97-2P 844477-72-1P

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(medicinal chemical driven approaches toward novel and selective serotonin 5-HT6 receptor ligands)

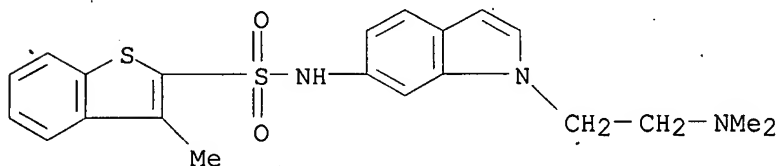
RN 753020-88-1 CAPLUS

CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



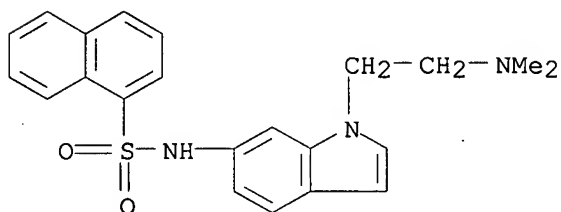
RN 753020-89-2 CAPLUS

CN Benzo[b]thiophene-2-sulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-3-methyl- (9CI) (CA INDEX NAME)



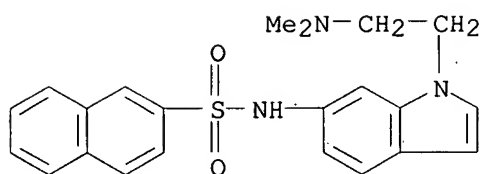
RN 753020-90-5 CAPLUS

CN 1-Naphthalenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



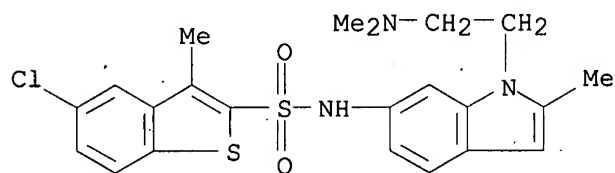
RN 753020-91-6 CAPLUS

CN 2-Naphthalenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



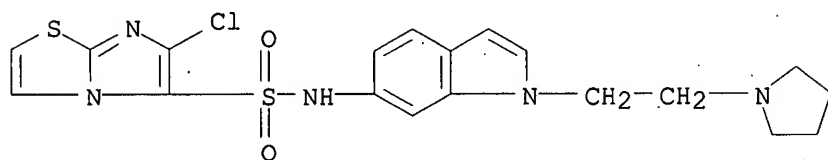
RN 753020-93-8 CAPLUS

CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-N-[1-[2-(dimethylamino)ethyl]-2-methyl-1H-indol-6-yl]-3-methyl- (9CI) (CA INDEX NAME)



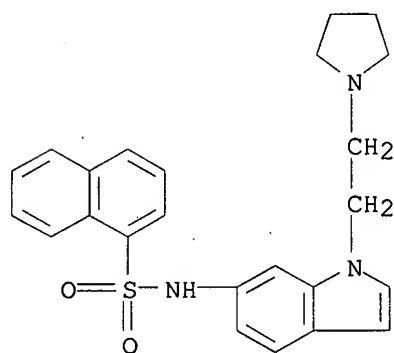
RN 753020-94-9 CAPLUS

CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



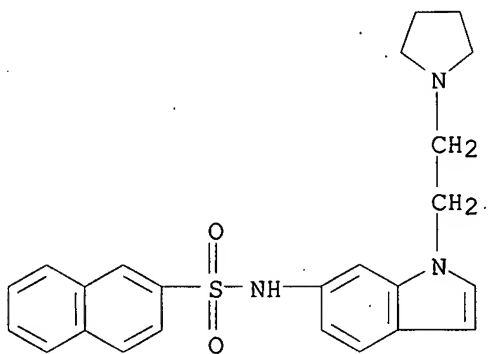
RN 753020-96-1 CAPLUS

CN 1-Naphthalenesulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



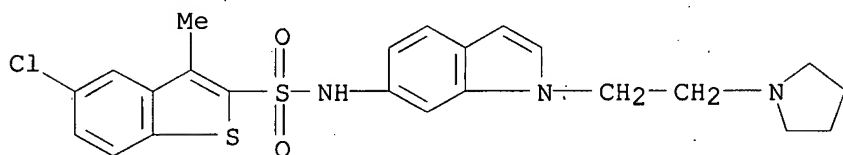
RN 753020-97-2 CAPLUS

CN 2-Naphthalenesulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



RN 844477-72-1 CAPLUS

CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-3-methyl-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 68 THERE ARE 68 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:412918 CAPLUS

DOCUMENT NUMBER: 140:423584

TITLE: A preparation of indole derivatives useful in the treatment of androgen-receptor related diseases

INVENTOR(S): Hermkens, Pedro Harold Han; Stock, Herman Thijs; Teerhuis, Neeltje Miranda; Lommerse, Johannes Petrus Maria; Van der Louw, Jaap

PATENT ASSIGNEE(S): Akzo Nobel N.V., Neth.

SOURCE: PCT Int. Appl., 75 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004041782	A1	20040521	WO 2003-EP50783	20031103
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2504907	A1	20040521	CA 2003-2504907	20031103
AU 2003301853	A1	20040607	AU 2003-301853	20031103
BR 2003016020	A	20050920	BR 2003-16020	20031103
EP 1585727	A1	20051019	EP 2003-810458	20031103

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

CN 1714078	A	20051228	CN 2003-80103950	20031103
JP 2006507293	T	20060302	JP 2004-549180	20031103
NO 2005002012	A	20050526	NO 2005-2012	20050425
MX 2005PA04929	A	20050818	MX 2005-PA4929	20050506
US 2006128722	A1	20060615	US 2005-534945	20050506
LV 13359	B	20060320	LV 2005-68	20050607

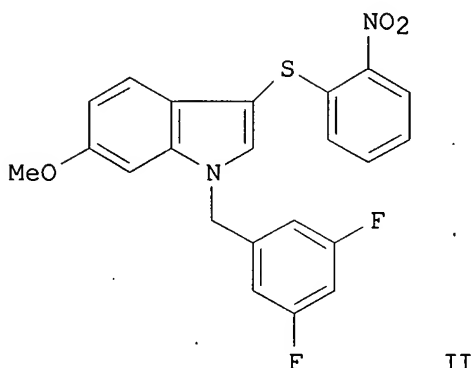
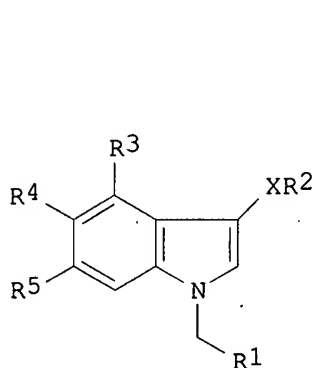
PRIORITY APPLN. INFO.:

EP 2002-79648	A	20021107
US 2002-424579P	P	20021107
WO 2003-EP50783	W	20031103

OTHER SOURCE(S):

MARPAT 140:423584

GI



AB The invention relates to a preparation of indole derivs. of formula I [wherein: X = S, S(O), SO₂; R₁ is (un)substituted 5- or 6-membered monocyclic, (hetero/homo)cyclic ring; R₂ is 2-O₂NC₆H₄, 2-cyanophenyl, 2-hydroxymethylphenyl, pyridin-2-yl, pyridin-2-yl-N-oxide, etc.; R₃ is H, halogen or C1-4alkyl; R₄ is H, OH, C1-4alkoxy, or halogen; R₅ is H, OH, C1-4alkoxy, NH₂, CN, halogen, C1-4fluoroalkyl, or NO₂, etc.], useful for the treatment of androgen-receptor related diseases. Anti-androgenic activity of the invented compds. was determined in an in vitro bioassay of Chinese hamster ovary (CHO) cells stably transfected with the human androgen receptor expression plasmid and a reporter plasmid in which the MMTV-promoter was linked to the luciferase reporter gene. For instance, indole derivs. II (EC₅₀ < 5 nM; efficacy > 0.8) was prepared via N-benylation of 6-methoxyindole by 3,5-difluorobenzyl bromide, and subsequent addition of the obtained 1-(3,5-difluorobenzyl)-6-methoxy-1H-indole to 2-nitrobenzenesulfonyl chloride (example 1).

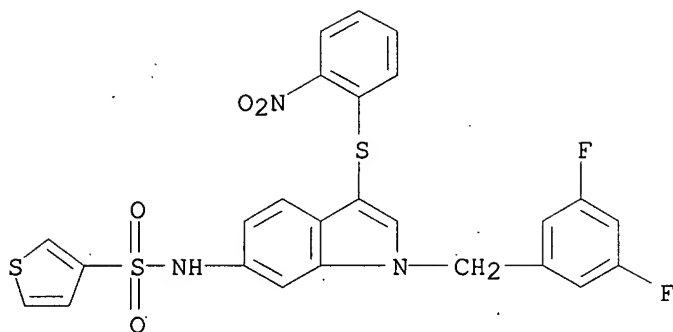
IT 691400-43-8P 691400-44-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of indole derivs. useful in the treatment of androgen-receptor related diseases)

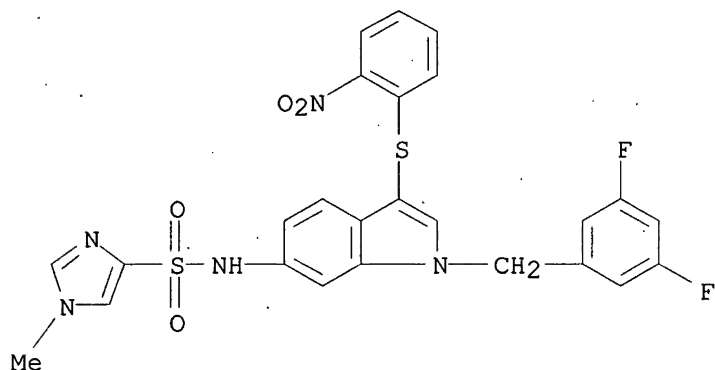
RN 691400-43-8 CAPLUS

CN 3-Thiophenesulfonamide, N-[1-[(3,5-difluorophenyl)methyl]-3-[(2-nitrophenyl)thio]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



RN 691400-44-9 CAPLUS

CN 1H-Imidazole-4-sulfonamide, N-[1-[(3,5-difluorophenyl)methyl]-3-[(2-nitrophenyl)thio]-1H-indol-6-yl]-1-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:389755 CAPLUS

DOCUMENT NUMBER: 139:270249

TITLE: New Analogues of the Anticancer E7070: Synthesis and Pharmacology

AUTHOR(S): Laconde, G.; Pommery, N.; Depreux, P.; Berthelot, P.; Henichart, J.-P.

CORPORATE SOURCE: Institut de Chimie Pharmaceutique Albert Lespagnol, EA 2692, Lille, 59006, Fr.

SOURCE: Journal of Enzyme Inhibition and Medicinal Chemistry (2003), 18(2), 89-94

CODEN: JEIMAZ; ISSN: 1475-6366

PUBLISHER: Taylor & Francis Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 139:270249

AB Cell cycle control in the G1 phase has attracted considerable attention in recent cancer research, because many of the important proteins involved in G1 progression or G1/S transition have been found to play a crucial role in proliferation, differentiation, transformation, and programmed cell death (apoptosis). E7070 is a novel antitumor sulfonamide, with a unique mode of action that affects G1 progression of the cell cycle. A series of compds. containing an N-[1-(3,4,5-trimethoxybenzyl)-1H-indol-5-yl]benzene sulfonamide, analogs of E7070, was synthesized and evaluated as potential antitumor agents. Cell cycle anal. with PC3 human prostate cancer cells revealed a cellular accumulation in the G1 phase.

IT 605657-93-0P

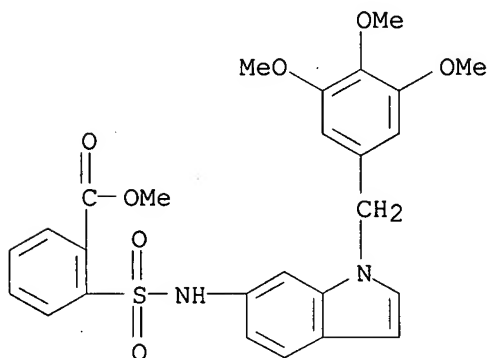
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(synthesis and activity of anticancer E7070 analogs)

RN 605657-93-0 CAPLUS

CN Benzoic acid, 2-[[[1-[(3,4,5-trimethoxyphenyl)methyl]-1H-indol-6-yl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
43.57	215.88

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jul 13, 2007 (20070713/UP).

=> d his

(FILE 'HOME' ENTERED AT 11:15:22 ON 18 JUL 2007)

FILE 'REGISTRY' ENTERED AT 11:15:40 ON 18 JUL 2007

L1 STRUCTURE UPLOADED
L2 2 S L1
L3 20 S L1 FULL

FILE 'CAPLUS' ENTERED AT 11:16:07 ON 18 JUL 2007

L4 8 S L3 FULL

FILE 'STNGUIDE' ENTERED AT 11:17:48 ON 18 JUL 2007

=> log y
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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ENTRY	SESSION
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CA SUBSCRIBER PRICE

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Connecting via Winsock to STN

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LOGINID:SSPTANXR1625

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

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NEWS	3	MAR 16	CASREACT coverage extended
NEWS	4	MAR 20	MARPAT now updated daily
NEWS	5	MAR 22	LWPI reloaded
NEWS	6	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS	7	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS	8	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS	9	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS	10	APR 30	CA/CAPplus enhanced with 1870-1889 U.S. patent records
NEWS	11	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS	12	MAY 01	New CAS web site launched
NEWS	13	MAY 08	CA/CAPplus Indian patent publication number format defined
NEWS	14	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	15	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	16	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	17	MAY 21	CA/CAPplus enhanced with additional kind codes for German patents
NEWS	18	MAY 22	CA/CAPplus enhanced with IPC reclassification in Japanese patents
NEWS	19	JUN 27	CA/CAPplus enhanced with pre-1967 CAS Registry Numbers
NEWS	20	JUN 29	STN Viewer now available
NEWS	21	JUN 29	STN Express, Version 8.2, now available
NEWS	22	JUL 02	LEMBASE coverage updated
NEWS	23	JUL 02	LMEDLINE coverage updated
NEWS	24	JUL 02	SCISEARCH enhanced with complete author names
NEWS	25	JUL 02	CHEMCATS accession numbers revised
NEWS	26	JUL 02	CA/CAPplus enhanced with utility model patents from China
NEWS	27	JUL 16	CAPplus enhanced with French and German abstracts
NEWS	28	JUL 18	CA/CAPplus patent coverage enhanced

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007..

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NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

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* * * * * STN Columbus * * * * *

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=> FILE CAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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FILE LAST UPDATED: 17 Jul 2007 (20070717/ED)

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620 HT6

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L4 31 L3 AND DISEAS?

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L4 ANSWER 1 OF 31 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:802568 CAPLUS

DOCUMENT NUMBER: 141:296050

TITLE: Preparation of 1-alkylsulfonylheterocyclylbenzazoles and related compounds as 5-hydroxytryptamine-6 ligands

INVENTOR(S): Kelly, Michael Gerard; Cole, Derek Cecil

PATENT ASSIGNEE(S): Wyeth, John, and Brother Ltd., USA

126. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:71.

127. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:72.

5 128. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:73.

129. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:74.

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131. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:76.

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NO:156.

35 212. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
NO:157.

213. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
NO:158.

214. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
5 NO:159.

215. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
NO:160.

10

<110> INCYTE GENOMICS, INC.
TANG, Y. Tom
WARREN, Bridget A.
GIETZEN, Kimberly J.
LAL, Preeti G.
YUE, Henry
HONCHELL, Cynthia D.
LEHR-MASON, Patricia M.
BURFORD, Neil
XU, Yuming
BAUGHN, Mariah R.
DUGGAN, Brendan M.
TRAN, Uyen K.
LEE, Ernestine A.
FORSYTHE, Ian J.
RICHARDSON, Thomas W.
LEE, Sally
THANGAVELU, Kavitha
YUE, Huibin
EMERLING, Brooke M.
WALIA, Narinder K.
AZIMZAI, Yalda
SANJANWALA Bharati
HAFALIA, April J.A.
BOROWSKY, Mark L.
NGUYEN, Danniell B.
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ASTROMOFF, Anna
DING, Li
LEE, Soo Yeun
BECHA, Shanya D.
RAMKUMAR, Jayalaxmi
GANDHI, Ameena R.
JIN, Pei
FU, Glenn K.
SWARNAKAR, Anita

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<150> US 60/314,752

<151> 2001-08-24

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Pro Pro Gln Ala Ile Cys Leu His Leu Ala Gly Glu Val Leu Ala
          35          40          45
Val Ala Arg Gly Leu Lys Pro Ala Val Leu Tyr Asp Cys Asn Cys
          50          55          60
Ala Gly Ala Ser Glu Leu Gln Ser Tyr Leu Glu Glu Leu Lys Gly
          65          70          75
Leu Gly Phe Leu Thr Phe Gly Leu His Ile Leu Glu Ile Gly Glu
          80          85          90
Asn Ser Leu Ile Val Ser Pro Glu His Val Cys Gln His Leu Glu
          95          100          105
Gln Val Leu Leu Gly Thr Ile Ala Phe Val Asp Val Ser Ser Cys
          110          115          120
Gln Arg His Pro Ser Val Cys Ser Leu Asp Gln Leu Gln Asp Leu
          125          130          135
Lys Ala Leu Val Ala Glu Ile Ile Thr His Leu Gln Gly Leu Gln
          140          145          150
Arg Asp Leu Ser Leu Ala Val Ser Tyr Ser Arg Leu His Ser Ser
          155          160          165
Asp Trp Asn Leu Cys Thr Val Phe Gly Ile Leu Leu Gly Tyr Pro
          170          175          180
Val Pro Tyr Thr Phe His Leu Asn Gln Gly Asp Asp Asn Cys Leu
          185          190          195
Ala Leu Thr Pro Leu Arg Val Phe Thr Ala Arg Ile Ser Trp Leu
          200          205          210
Leu Gly Gln Pro Pro Ile Leu Leu Tyr Ser Phe Ser Val Pro Glu
          215          220          225
Ser Leu Phe Pro Gly Leu Arg Asp Ile Leu Asn Thr Trp Glu Lys
          230          235          240
Asp Leu Arg Thr Arg Phe Arg Thr Gln Asn Asp Phe Ala Asp Leu
          245          250          255
Ser Ile Ser Ser Glu Ile Val Thr Leu Pro Ala Val Ala Leu
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 Ser Ala Thr Cys Leu Leu Cys Leu Asn Leu Phe Val Ala Gln
 20 25 30
 Val His Trp His Thr Arg Asp Ala Met Glu Ser Asp Leu Leu Trp
 35 40 45
 Thr Tyr Tyr Leu Asn Trp Cys Ser Asp Ile Phe Tyr Met Phe Ala
 50 55 60
 Gly Ile Ile Ser Leu Leu Asn Tyr Leu Thr Ser Arg Ser Pro Ala
 65 70 75
 Cys Asp Glu Asn Val Thr Val Ile Pro Thr Glu Arg Ser Arg Leu
 80 85 90
 Gly Val Gly Pro Val Thr Thr Val Ser Pro Ala Lys Asp Glu Gly
 95 100 105
 Pro Arg Ser Glu Met Glu Ser Leu Ser Val Arg Glu Lys Asn Leu
 110 115 120
 Pro Lys Ser Gly Leu Trp Trp
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 1 5 10 15
 Val Leu Gln Ala Thr Gly His Ser Leu Gly Leu Arg Pro Ala Ser
 20 25 30
 Pro Val Phe His Arg Glu Val Arg Cys Ile Gly Trp Val Arg Cys
 35 40 45
 Leu Phe Cys Ser Ile Ile Ser Ser Phe Leu Met Cys Lys Asn Gly
 50 55 60
 Arg Leu Glu Thr Val Ser Asp Ser Lys Ala Thr
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 1 5 10 15
 Ala Val Ala Gln Lys Ala Val Leu Ala Ala Leu Ala Pro Phe Arg
 20 25 30
 Ser Phe Phe Arg Tyr Tyr Leu Leu Gly Glu Ser Phe Leu Thr Thr
 35 40 45
 Leu Phe Lys Ala His His Ala Ser Pro Thr Thr Pro His Val Pro

Ser	Trp	Pro	Glu	Phe	Phe	His	Ser	Thr	Asp	Cys	Asn	Gln	Tyr	Thr
				50					55					60
Leu	Tyr	Val	Phe	Tyr	Val	Phe	Thr		70					75
				65										
				80										

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Asn	Thr	Pro	Thr	Glu	Gln	Ala	Glu	Pro	Leu	Pro	Asp	Ala	Cys	Arg
				20					25					30
Leu	Arg	Gly	Phe	Trp	Pro	Arg	Ser	Leu	Thr	Leu	Leu	Gln	Ser	Asn
				35					40					45
Thr	Ser	Thr	Leu	Leu	Leu	Asn	Ser	Ser	Phe	Leu	Gln	Ser	Arg	Gly
				50					55					60
Glu	Val	Ile	Arg	Ile	Arg	Ala	Thr	Ala	Leu	Thr	Arg	His	Ala	Tyr
				65					70					75
Gly	Glu	Asp	Thr	Tyr	Val	Ile	Ser	Thr	Val	Pro	Pro	Arg	Glu	Val
				80					85					90
Pro	Ala	Cys	Thr	Ile	Ala	Pro	Glu	Glu	Gly	Thr	Val	Leu	Thr	Ser
				95					100					105
Phe	Ala	Ile	Phe	Cys	Asn	Ala	Ser	Thr	Ala	Leu	Gly	Pro	Leu	Glu
				110					115					120
Phe	Cys	Phe	Cys	Leu	Glu	Ser	Gly	Ser	Cys	Leu	His	Cys	Gly	Pro
				125					130					135
Glu	Pro	Ala	Leu	Pro	Ser	Val	Tyr	Leu	Pro	Leu	Gly	Glu	Glu	Asn
				140					145					150
Asn	Asp	Phe	Val	Leu	Thr	Val	Val	Ile	Ser	Ala	Thr	Asn	Arg	Ala
				155					160					165
Gly	Asp	Thr	Gln	Gln	Thr	Gln	Ala	Met	Ala	Lys	Val	Ala	Leu	Gly
				170					175					180
Asp	Thr	Cys	Val	Glu	Asp	Val	Ala	Phe	Gln	Ala	Ala	Val	Ser	Glu
				185					190					195
Lys	Ile	Pro	Thr	Ala	Leu	Gln	Gly	Glu	Gly	Gly	Pro	Glu	Gln	Leu
				200					205					210
Leu	Gln	Leu	Ala	Lys	Ala	Val	Ser	Ser	Met	Leu	Asn	Gln	Glu	His
				215					220					225
Glu	Ser	Gln	Gly	Ser	Gly	Gln	Ser	Leu	Ser	Ile	Asp	Val	Arg	Gln
				230					235					240
Lys	Val	Arg	Glu	His	Val	Leu	Gly	Ser	Leu	Ser	Ala	Val	Thr	Thr
				245					250					255
Gly	Leu	Glu	Asp	Val	Gln	Arg	Val	Gln	Glu	Leu	Ala	Glu	Val	Leu
				260					265					270
Arg	Glu	Val	Thr	Cys	Arg	Ser	Lys	Glu	Leu	Thr	Pro	Ser	Ala	Gln
				275					280					285
Gly	Ser	Cys	Met	Gly	Asp	Ser	Trp	Glu	Gly	Ala	Pro	Pro	Ala	Ala
				290					295					300
His	Val	Ser	His	Ala	Arg									
				305										

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Leu Leu Leu Leu Ser Pro Trp Pro Val Trp Ala His Val Ser Ala
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Thr Ala Ser Pro Ser Gly Ser Leu Gly Ala Pro Asp Cys Pro Glu
          35          40          45
Val Cys Thr Cys Val Pro Gly Gly Leu Ala Ser Cys Ser Ala Leu
          50          55          60
Ser Leu Pro Ala Val Pro Pro Gly Leu Ser Leu Arg Leu Arg Ala
          65          70          75
Leu Leu Leu Asp His Asn Arg Val Arg Ala Leu Pro Pro Gly Ala
          80          85          90
Phe Ala Gly Ala Gly Ala Leu Gln Arg Leu Asp Leu Arg Glu Asn
          95          100          105
Gly Leu His Ser Val His Val Arg Ala Phe Trp Gly Leu Gly Ala
          110          115          120
Leu Gln Leu Leu Asp Leu Ser Ala Asn Gln Leu Glu Ala Leu Ala
          125          130          135
Pro Gly Ala Phe Ala Pro Leu Arg Ala Leu Arg Asn Leu Ser Leu
          140          145          150
Ala Gly Asn Arg Leu Ala Arg Leu Glu Pro Ala Ala Leu Gly Ala
          155          160          165
Leu Pro Leu Leu Arg Ser Leu Ser Leu Gln Asp Asn Glu Leu Ala
          170          175          180
Ala Leu Ala Pro Gly Leu Leu Gly Arg Leu Pro Ala Leu Asp Ala
          185          190          195
Leu His Leu Arg Gly Asn Pro Trp Gly Cys Gly Cys Ala Leu Arg
          200          205          210
Pro Leu Cys Ala Trp Leu Arg Arg His Pro Leu Pro Ala Ser Glu
          215          220          225
Ala Glu Thr Val Leu Cys Val Trp Pro Gly Arg Leu Thr Leu Ser
          230          235          240
Pro Leu Thr Ala Phe Ser Asp Ala Ala Phe Ser His Cys Ala Gln
          245          250          255
Pro Leu Ala Leu Arg Asp Leu Ala Val Val Tyr Thr Leu Gly Pro
          260          265          270
Ala Ser Phe Leu Val Ser Leu Ala Ser Cys Leu Ala Leu Gly Ser
          275          280          285
Gly Leu Thr Ala Cys Arg Ala Arg Arg Arg Arg Leu Arg Thr Ala
          290          295          300
Ala Leu Arg Pro Pro Arg Pro Pro Asp Pro Asn Pro Asp Pro Asp
          305          310          315
Pro His Gly Cys Ala Ser Pro Ala Asp Pro Gly Ser Pro Ala Ala
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Ala Ala Gln Ala

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          20          25          30
Gly Phe Ser Ser Ala Gln Ser Arg Arg Ile Ala Lys Ser Ile Asn
          35          40          45
Arg Asn Ser Val Arg Ser Arg Met Pro Ala Lys Ser Ser Lys Met
          50          55          60

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Tyr	Gly	Thr	Leu	Arg	Lys	Gly	Ser	Val	Cys	Ala	Asp	Pro	Lys	Pro
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Gln	Gln	Val	Lys	Lys	Ile	Phe	Glu	Ala	Leu	Lys	Arg	Gly	Leu	Lys
				80					85					90
Glu	Tyr	Leu	Cys	Val	Gln	Gln	Ala	Glu	Leu	Asp	His	Leu	Ser	Gly
				95					100					105
Arg	His	Lys	Asp	Thr	Arg	Arg	Asn	Ser	Arg	Leu	Ala	Phe	Tyr	Tyr
				110					115					120
Asp	Leu	Asp	Lys	Gln	Thr	Arg	Cys	Val	Glu	Arg	His	Ile	Arg	Lys
				125					130					135
Met	Glu	Phe	His	Ile	Ser	Lys	Val	Asp	Glu	Leu	Tyr	Glu	Asp	Tyr
				140					145					150
Cys	Ile	Gln	Cys	Arg	Leu	Arg	Asp	Gly	Ala	Ser	Ser	Met	Gln	Arg
				155					160					165
Ala	Phe	Ala	Arg	Cys	Pro	Pro	Ser	Arg	Ala	Ala	Arg	Glu	Ser	Leu
				170					175					180
Gln	Glu	Leu	Gly	Arg	Ser	Leu	His	Glu	Cys	Ala	Glu	Asp	Met	Trp
				185					190					195
Leu	Ile	Glu	Gly	Ala	Leu	Glu	Val	His	Leu	Gly	Glu	Phe	His	Ile
				200					205					210
Arg	Met	Lys	Gly	Leu	Val	Gly	Tyr	Ala	Arg	Leu	Cys	Pro	Gly	Asp
				215					220					225
His	Tyr	Glu	Val	Leu	Met	Arg	Leu	Gly	Arg	Gln	Arg	Trp	Lys	Leu
				230					235					240
Lys	Gly	Arg	Ile	Glu	Ser	Asp	Asp	Ser	Gln	Thr	Trp	Asp	Glu	Glu
				245					250					255
Glu	Lys	Ala	Phe	Ile	Pro	Thr	Leu	His	Glu	Asn	Leu	Asp	Ile	Lys
				260					265					270
Val	Thr	Glu	Leu	Arg	Gly	Leu	Gly	Ser	Leu	Ala	Val	Gly	Ala	Val
				275					280					285
Thr	Cys	Asp	Ile	Ala	Asp	Phe	Phe	Thr	Thr	Arg	Pro	Gln	Val	Ile
				290					295					300
Val	Val	Asp	Ile	Thr	Glu	Leu	Gly	Thr	Ile	Lys	Leu	Gln	Leu	Glu
				305					310					315
Val	Gln	Trp	Asn	Pro	Phe	Asp	Thr	Glu	Ser	Phe	Leu	Val	Ser	Pro
				320					325					330
Ser	Pro	Thr	Gly	Lys	Phe	Ser	Met	Gly	Ser	Arg	Lys	Gly	Ser	Leu
				335					340					345
Tyr	Asn	Trp	Thr	Pro	Pro	Ser	Thr	Pro	Ser	Phe	Arg	Glu	Arg	Tyr
				350					355					360
Tyr	Leu	Ser	Val	Leu	Gln	Gln	Pro	Thr	Gln	Gln	Ala	Leu	Leu	Leu
				365					370					375
Gly	Gly	Pro	Arg	Ala	Thr	Ser	Ile	Leu	Ser	Tyr	Leu	Ser	Asp	Ser
				380					385					390
Asp	Leu	Arg	Gly	Pro	Ser	Leu	Arg	Ser	Gln	Ser	Gln	Glu	Leu	Pro
				395					400					405
Glu	Met	Asp	Ser	Phe	Ser	Ser	Glu	Asp	Pro	Arg	Asp	Thr	Glu	Thr
				410					415					420
Ser	Thr	Ser	Ala	Ser	Thr	Ser	Asp	Val	Gly	Phe	Leu	Pro	Leu	Thr
				425					430					435
Phe	Gly	Pro	His	Ala	Ser	Ile	Glu	Glu	Glu	Ala	Arg	Glu	Asp	Pro
				440					445					450
Leu	Pro	Pro	Gly	Leu	Leu	Pro	Glu	Met	Ala	His	Leu	Ser	Gly	Gly
				455					460					465
Pro	Phe	Ala	Glu	Gln	Pro	Gly	Trp	Arg	Asn	Leu	Gly	Gly	Glu	Ser
				470					475					480
Pro	Ser	Leu	Pro	Gln	Gly	Ser	Leu	Phe	His	Ser	Gly	Thr	Ala	Ser
				485					490					495
Ser	Ser	Gln	Asn	Gly	His	Glu	Glu	Gly	Ala	Thr	Gly	Asp	Arg	Glu
				500					505					510
Asp	Gly	Pro	Gly	Val	Ala	Leu	Glu	Gly	Pro	Leu	Gln	Glu	Val	Leu
				515					520					525
Glu	Leu	Leu	Arg	Pro	Thr	Asp	Ser	Thr	Gln	Pro	Gln	Leu	Arg	Glu
				530					535					540
Leu	Glu	Tyr	Gln	Val	Leu	Gly	Phe	Arg	Asp	Arg	Leu	Lys	Pro	Cys
				545					550					555
Arg	Ala	Arg	Gln	Glu	His	Thr	Ser	Ala	Glu	Ser	Leu	Met	Glu	Cys

Ile Leu Glu Ser	560	565	570
Phe Ala Phe Leu Asn	575	Ala Asp Phe Ala Pro	Asp
Glu Leu Ser Leu	590	Gly Leu Arg Lys Asp	Arg
Pro Leu Pro Pro	605	Ala Ser Ser Arg Glu	Leu
Thr Ala Gly Ala	620	Leu Leu Met Val His	Leu
Gln Val Cys Lys	635	Leu Ala Ser Pro Asn	Leu
Ser Arg Leu Val	650	Glu Glu Val Ala Gln	Gln
Lys His Val Leu	665	Leu Asp Phe Glu Lys	Val
Gly Lys Ala Thr	680	Ile Ile Pro Gln Ala Ser	Arg
Thr Lys Gly Cys	695	Gly Cys Thr Gly Pro	Gly
Arg Val Leu Ser	710	Leu Leu Asn Gln Leu	Lys
Lys Thr Phe Gln	725	Lys Tyr Pro Gly Gln	Leu
Glu Ile Ala Cys	740	Gln Val Val Ser Cys	Gly
Gly Leu Leu Pro	755	Glu Glu Ile Ile Thr	Thr
Trp Phe Gln Phe	770	Arg Gln Ser Val Ser	Asp
Leu Glu Lys His	785	Lys Glu Val Thr Leu	Ile
Glu Glu Leu His	800	Lys Val Val Arg Lys	Leu
Gln Gly Lys Arg	815	Pro Leu Pro Gln Thr	Leu
Arg Ala Trp Ala	830	Gly Thr Pro Arg Val	Cys
Arg Ala Ala Ser	845	Ala Val Arg Asn Arg	Ser
Phe Arg Glu Lys	860	Thr Asn Ala Leu Ala	Glu
Asn Asp Ala Arg	875	Cys Leu Ala Leu Lys	His
Leu Lys Gly Ile	890	Thr Ala Ser Leu Cys	Gln
Ser Asp Leu Glu	905	Ala Arg Glu Thr Thr	Leu
Ser Phe Gly Glu	920	Phe Glu Lys Met Asp	Lys
Leu Cys Ser Glu	935	Cys Gln Glu Ala Asp	Val
Glu Ile Thr Ile	950		

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Ser Thr Ser Ser Glu Leu Ser Val Glu Glu Ala Gln Asp Pro Phe	35		40		45
Leu Val Ser Ile His Ile Ile Ala Asp Pro Gly Glu Ser Gln Pro	50		55		60
Leu Gln Glu Ala Ile Asp Asn Val Leu Ala Trp Ile His Pro Asp	65		70		75
Leu Pro Leu Phe Arg Val Ser Glu Arg Arg Ala Ser Arg Arg Arg	80		85		90
Arg Lys Pro Pro Lys Gly Ala Gln Pro Ala Leu Ala Val Val Leu	95		100		105
Phe Leu Gln Glu Glu Tyr Gly Glu Glu Gln Ile Leu Gln Leu His	110		115		120
Arg Thr Leu Gln Gln Pro Pro Trp Arg His His His Thr Glu Gln	125		130		135
Val His Gly Arg Phe Leu Pro Tyr Leu Pro Cys Ser Gln Asp Phe	140		145		150
Phe Thr Leu Ala Pro Gly Thr Pro Leu Trp Ala Ile Arg Pro Val	155		160		165
His Tyr Gly Lys Glu Ile Val Arg Phe Thr Val Tyr Cys Arg Tyr	170		175		180
Asp Asn Tyr Ala Asp Ser Leu Arg Phe Tyr Gln Leu Ile Leu Arg	185		190		195
Arg Ser Pro Ser Gln Lys Lys Ala Asp Phe Cys Ile Phe Pro Ile	200		205		210
Phe Ser Asn Leu Asp Val Asp Ile Gln Phe Ser Leu Lys Arg Leu	215		220		225
Pro Cys Asp Gln Cys Pro Val Pro Thr Asp Ser Ser Val Leu Glu	230		235		240
Phe Arg Val Arg Asp Ile Gly Glu Leu Val Pro Leu Leu Pro Asn	245		250		255
Pro Cys Ser Pro Ile Ser Glu Gly Arg Trp Gln Thr Glu Asp His	260		265		270
Asp Gly Asn Lys Ile Leu Leu Gln Ala Gln Arg Val His Lys Lys	275		280		285
Phe Pro Lys Pro Gly Arg Val His His Ala Ser Glu Lys Lys Arg	290		295		300
His Ser Thr Pro Leu Pro Ser Thr Ala Val Pro Ser His Thr Pro	305		310		315
Gly Ser Ser Gln Gln Ser Pro Leu Asn Ser Pro His Pro Gly Pro	320		325		330
Ile Arg Thr Gly Leu Pro Pro Gly His Gln Gln Glu Phe Ala Gly	335		340		345
Arg Ala Asn Ser Thr Pro Asn Pro Pro Trp Ser Phe Gln Arg Ser	350		355		360
Lys Ser Leu Phe Cys Leu Pro Thr Gly Gly Pro Ser Leu Ala Ser	365		370		375
Ser Ala Glu Pro Gln Trp Phe Ser Asn Thr Gly Ala Pro Gly His	380		385		390
Arg Ala Ser Glu Trp Arg His Gly His Leu Leu Ser Ile Asp Asp	395		400		405
Leu Glu Gly Ala Gln Glu Thr Asp Val Asp Thr Gly Leu Arg Leu	410		415		420
Ser Ser Ser Asp Leu Ser Val Val Ser Ala Tyr Ser Ala Pro Ser	425		430		435
Arg Phe Cys Ser Thr Val Glu Thr Pro Leu Pro Ser Glu Arg Cys	440		445		450
Ser Ser His Trp Ala Ala His Lys Asp Ser Arg Glu Gly Pro Leu	455		460		465
Pro Thr Val Ser Arg Val Thr Thr Glu Ala Ser Trp Ala Ser Leu	470		475		480
Pro Phe Phe Thr Lys Arg Ser Ser Ser Ser Ser Ala Thr Ala Arg	485		490		495
Ala Ala Pro Pro Ala Pro Ser Thr Ser Thr Leu Thr Asp Ser Ser	500		505		510
Pro Gln Leu Pro Cys Asp Thr Pro Lys Val Lys Gln Thr Asp Gly	515		520		525

Asp Met Pro Pro Pro Pro Gly Ser Ala Gly Pro Gly Asp Asn Asp
 530 535 540
 Met Glu Glu Phe Tyr Ile
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 Leu Thr Ala His Ala Ala Arg Val Pro Asp Phe Asp Ser Leu Thr
 20 25 30
 Arg Val Ser Cys Ser Gly Gly Arg Gly Gly Ser Cys Val Gly
 35 40 45
 Val Pro Tyr Ile Gly Tyr His Cys Val Leu Asp Gln Leu Lys Asp
 50 55 60
 Gly Ser Arg Thr Ala Asn Ala Leu Pro Thr Gly Ser Glu Arg Ile
 65 70 75
 Cys Asp Gly Ala Gly Cys Asp Pro Arg Asp Ser Val Ile Pro Val
 80 85 90
 Tyr Ala Thr Ser Thr Ile Asp Val Glu Val Asn Ala Asn Leu Arg
 95 100 105
 Gly Val Ser Arg Arg Phe Asp Thr Ser Phe Pro Pro Thr Val Thr
 110 115 120
 Glu Glu Leu Asn Thr Met Gly Asn Ile Gly Ser Val Glu Asn Leu
 125 130 135
 Glu Pro Gly Ser Ala Gly Phe Ala Arg Ile Leu Arg Ala Phe Gly
 140 145 150
 Gly Lys Gln Thr Ser Gly Met Ser Pro Ala Glu Ala Arg Ala Val
 155 160 165
 Thr Leu Val Lys Val Tyr His Ile Asp Asp Ala His Asp Glu Val
 170 175 180
 Glu Asp Glu Lys Ser Ala Ala Ala Pro Glu Leu Leu Ile Arg Phe
 185 190 195
 Phe Arg Gly Glu Glu Gln Val Gly Gly Ser Val Leu Glu Arg Asp
 200 205 210
 Leu Lys Gly Leu Pro Ser Lys Thr Arg Ala Arg Ile Cys Thr Lys
 215 220 225
 Ile

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 1 5 10 15
 Val Ser Ser Pro His Val Pro Ala Ser Leu Thr Pro Pro Pro Thr
 20 25 30
 Arg Gly Ser Pro Glu Ile Ala Glu Asn Ser Lys Arg Ser Pro Gly
 35 40 45
 Thr Gly Lys Lys Ser Arg Gln Gly Arg Leu Arg Ser Leu His Pro
 50 55 60
 Ser Leu Leu Pro Ser Leu His Pro Asp Pro Ala Gln Thr Phe Val

Thr	Thr	Pro	Ser	Leu	Ser	Pro	Ala	Gly	Trp	Val	Gly	Gly	Ile	Pro
				65					70					75
Leu	Cys	Arg	Trp	Leu	Pro	Glu	Ala	Gly	Gln	Ala	Ser	Trp	Ser	Cys
				80					85					90
Pro	Arg	Ser	Trp	Arg	Ser	Pro	Cys	His	Ser	Asp	Pro	Pro	His	Thr
				95					100					105
Pro	Gly	Gly	Ala	Ala	Leu	His	Pro	Gly	Ser					120
				110					115					
				125					130					

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<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6246243CD1

<400> 11

Met	Ala	Val	Ser	Gln	Gly	Asp	Gly	Thr	Leu	Cys	Phe	Val	Leu	Leu
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Leu	Cys	Cys	Trp	Gln	Glu	Thr	Glu	Leu	Arg	Pro	Arg	Thr	Val	Ile
				20					25					30
Pro	Gly	Ser	Pro	Thr	Glu	Ile	Pro	Phe	Ser	Ser	Lys	Gln	Glu	Asp
				35					40					45
Met	Ser	Glu	Leu	Leu	Asp	Glu	Ile	Leu	Val	Gln	Glu	Ile	Leu	Asp
				50					55					60
Leu	Asn	Lys	Thr	Thr	Pro	Ser	Glu	Met	Pro	Ser	Thr	Ala	Ser	Thr
				65					70					75
Leu	Ser	Thr	Pro	Leu	His	Ala	Gly	Ile	Asp	Glu	Asn	Tyr	Gln	Ala
				80					85					90
Gly	Gly	Ser	Glu	Asn	Tyr	His	Glu	Leu	Leu	Glu	Asn	Leu	Gln	Phe
				95					100					105
Ser	Pro	Gly	Ile	Glu	Val	Lys	Ile	Ser	Asn	Asp	Glu	Ala	Asn	Ala
				110					115					120
Asn	Ala	Asn	Leu	His	Gly	Asp	Pro	Ser	Glu	Asn	Tyr	Arg	Gly	Pro
				125					130					135
Gln	Val	Ser	Pro	Gly	Ser	Glu	Lys	Ser	Val	Ser	Ser	Lys	Glu	Lys
				140					145					150
Asn	Ser	Lys	Asn	Thr	Gln	Tyr	Glu	Asn	Leu	Ser	Ile	Leu	Asp	Gln
				155					160					165
Ile	Leu	Gln	Asn	Ile	Gly	Arg	Ser	Ser	Gly	Asn	Ile	Phe	His	Lys
				170					175					180
Glu	Gln	Gln	Arg	Thr	Ser	Ala	Gln	Arg	Arg	Ser	Gln	Gly	Ser	Gln
				185					190					195

<210> 12

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6804755CD1

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Met	Cys	Cys	Trp	Leu	Lys	Ser	Met	Lys	Lys	Ile	Gln	Pro	Trp	Leu
1				5					10					15
Arg	Met	Leu	Pro	Ala	Leu	Ser	Gly	Ala	Cys	Ser	Gly	Leu	Gln	Pro
				20					25					30
Ser	Lys	Ala	Ala	Val	Cys	Pro	Ser	Glu	His	Gly	Ser	Lys	Arg	Cys
				35					40					45
Pro	His	Ala	Met	Gly	Phe	Asp	Leu	Ile	Ile	Cys	Leu	Glu	Gly	Ser
				50					55					60
Gln	Ala	Leu	His	Glu	Ser	Pro	Glu	Gln	Asp	Trp	Gln	Pro	Leu	Leu

Arg	Gly	Trp	Thr	Arg	Ile	His	Arg	Pro	Phe	Ser	Gln	Ser	Gly	Met
				65					70					75
Gly	Arg	Leu	Tyr	Cys	Ser	Tyr	Ser	Ala	Ser	Leu	Asp	Asn	Pro	Arg
				80					85					90
Phe	Leu	Asp	Ser	Phe	Leu	Gly			100					105
				95										
				110										

<210> 13
 <211> 107
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 6856852CD1

Met	Thr	Gly	Leu	Trp	Ala	Val	Leu	Ser	Leu	Leu	Ala	Gly	Leu	Leu
1				5					10					15
Gly	Arg	Ala	Pro	Ser	Pro	Ser	Pro	Arg	Glu	Val	Arg	Leu	Arg	Gln
				20					25					30
Ala	Asp	Gly	Pro	Ser	Gly	Lys	Gly	His	Leu	Lys	Arg	Gln	Glu	Ala
				35					40					45
Arg	Ala	Val	Asn	Pro	Gly	Asp	Gly	Glu	Ala	Asp	Gly	Val	Gly	Gly
				50					55					60
Lys	Asp	Phe	Ala	Leu	Val	Asp	Phe	Phe	Gln	Lys	Gly	Trp	Lys	Gln
				65					70					75
Leu	Arg	Leu	Asn	Tyr	Leu	Gly	Thr	Cys	Pro	Gly	His	Leu	Leu	Leu
				80					85					90
Thr	Ser	Cys	Met	Thr	Leu	Gly	Lys	Ser	Arg	Thr	Leu	Gly	Phe	Trp
				95					100					105
Phe	Leu													

<210> 14
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 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 7482027CD1

Met	Pro	Leu	Ala	Leu	Thr	Leu	Leu	Leu	Leu	Ser	Gly	Leu	Gly	Ala
1				5					10					15
Pro	Gly	Gly	Trp	Gly	Cys	Leu	Gln	Cys	Asp	Pro	Leu	Val	Leu	Glu
				20					25					30
Ala	Leu	Gly	His	Leu	Arg	Ser	Ala	Leu	Ile	Pro	Ser	Arg	Phe	Gln
				35					40					45
Leu	Glu	Gln	Leu	Gln	Ala	Arg	Ala	Gly	Ala	Val	Leu	Met	Gly	Met
				50					55					60
Glu	Gly	Pro	Phe	Phe	Arg	Asp	Tyr	Ala	Leu	Asn	Val	Phe	Val	Gly
				65					70					75
Lys	Val	Glu	Thr	Asn	Gln	Leu	Asp	Leu	Val	Ala	Ser	Phe	Val	Lys
				80					85					90
Asn	Gln	Thr	Gln	His	Leu	Met	Gly	Asn	Ser	Leu	Lys	Asp	Glu	Pro
				95					100					105
Leu	Leu	Glu	Glu	Val	Thr	Leu	Arg	Ala	Asn	Val	Ile	Lys	Glu	
				110					115					120
Phe	Lys	Lys	Val	Leu	Ile	Ser	Tyr	Glu	Leu	Lys	Ala	Cys	Asn	Pro
				125					130					135
Lys	Leu	Cys	Arg	Leu	Leu	Lys	Glu	Glu	Val	Leu	Asp	Cys	Leu	His
				140					145					150
Cys	Gln	Arg	Ile	Thr	Pro	Lys	Cys	Ile	His	Lys	Lys	Tyr	Cys	Phe
				155					160					165

Val	Asp	Arg	Gln	Pro	Arg	Val	Ala	Leu	Gln	Tyr	Gln	Met	Asp	Ser	
				170					175					180	
Lys	Tyr	Pro	Arg	Asn	Gln	Ala	Leu	Leu	Gly	Ile	Leu	Ile	Ser	Val	
				185					190					195	
Ser	Leu	Ala	Val	Phe	Val	Phe	Val	Val	Ile	Val	Val	Ser	Ala	Cys	
				200					205					210	
Thr	Tyr	Arg	Gln	Asn	Arg	Lys	Leu	Leu	Leu	Gln					
				215					220						

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<213> Homo sapiens

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<223> Incyte ID No: 7493507CD1

<400> 15

Met	Val	Ser	Ala	Ser	Gln	Asn	Glu	Val	Pro	Ala	Ala	Pro	Leu	Glu	
1				5					10					15	
Glu	Leu	Ala	Tyr	Arg	Arg	Ser	Leu	Arg	Val	Ala	Leu	Asp	Val	Leu	
				20					25					30	
Ser	Glu	Gly	Ser	Ile	Trp	Ser	Gln	Glu	Ser	Ser	Ala	Gly	Thr	Gly	
				35					40					45	
Arg	Ala	Asp	Arg	Ser	Leu	Arg	Gly	Lys	Pro	Met	Glu	His	Val	Ser	
				50					55					60	
Ser	Pro	Cys	Asp	Ser	Asn	Ser	Ser	Ser	Leu	Pro	Arg	Gly	Asp	Val	
				65					70					75	
Leu	Gly	Ser	Ser	Arg	Pro	His	Arg	Arg	Arg	Pro	Cys	Val	Gln	Gln	
				80					85					90	
Ser	Leu	Ser	Ser	Ser	Phe	Thr	Cys	Glu	Lys	Asp	Pro	Glu	Cys	Lys	
				95					100					105	
Val	Asp	His	Lys	Lys	Gly	Leu	Arg	Lys	Ser	Glu	Asn	Pro	Arg	Gly	
				110					115					120	
Pro	Leu	Val	Leu	Pro	Ala	Gly	Gly	Gly	Ala	Gln	Asp	Glu	Ser	Gly	
				125					130					135	
Ser	Arg	Ile	His	His	Lys	Asn	Trp	Thr	Leu	Ala	Ser	Lys	Arg	Gly	
				140					145					150	
Arg	Asn	Ser	Ala	Gln	Lys	Ala	Ser	Leu	Cys	Leu	Asn	Gly	Ser	Ser	
				155					160					165	
Leu	Ser	Glu	Asp	Asp	Thr	Glu	Arg	Asp	Met	Gly	Ser	Lys	Gly	Gly	
				170					175					180	
Ser	Trp	Ala	Ala	Pro	Ser	Leu	Pro	Ser	Gly	Val	Arg	Glu	Asp	Asp	
				185					190					195	
Pro	Cys	Ala	Asn	Ala	Glu	Gly	His	Asp	Pro	Gly	Leu	Pro	Leu	Gly	
				200					205					210	
Ser	Leu	Thr	Ala	Pro	Pro	Ala	Pro	Glu	Pro	Ser	Ala	Cys	Ser	Glu	
				215					220					225	
Pro	Gly	Glu	Cys	Pro	Ala	Lys	Lys	Arg	Pro	Arg	Leu	Asp	Gly	Ser	
				230					235					240	
Gln	Arg	Pro	Pro	Ala	Val	Gln	Leu	Glu	Pro	Met	Ala	Ala	Gly	Ala	
				245					250					255	
Ala	Pro	Ser	Pro	Gly	Pro	Gly	Pro	Gly	Pro	Arg	Glu	Ser	Val	Thr	
				260					265					270	
Pro	Arg	Ser	Thr	Ala	Arg	Leu	Gly	Pro	Pro	Pro	Ser	His	Ala	Ser	
				275					280					285	
Ala	Asp	Ala	Thr	Arg	Cys	Leu	Pro	Cys	Pro	Asp	Ser	Gln	Lys	Leu	
				290					295					300	
Glu	Lys	Glu	Cys	Gln	Ser	Ser	Glu	Glu	Ser	Met	Gly	Ser	Asn	Ser	
				305					310					315	
Met	Arg	Ser	Ile	Leu	Glu	Glu	Asp	Glu	Glu	Asp	Glu	Glu	Pro	Pro	
				320					325					330	
Arg	Val	Leu	Leu	Tyr	His	Glu	Pro	Arg	Ser	Phe	Glu	Val	Gly	Met	
				335					340					345	
Leu	Val	Trp	His	Lys	His	Lys	Lys	Tyr	Pro	Phe	Trp	Pro	Ala	Val	
				350					355					360	

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<210> 16
<211> 238
<212> PRT
<213> Homo sapiens
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<220>  
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<223> Incyte ID No: 3075994CD1
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13/92

Gly	Asn	Ala	Tyr	Glu	Ala	Ala	Ser	Gly	Lys	Phe	Thr	Cys	Pro	Met	
				140					145					150	
Pro	Gly	Val	Tyr	Phe	Phe	Ala	Tyr	His	Val	Leu	Met	Arg	Gly	Gly	
				155					160					165	
Asp	Gly	Thr	Ser	Met	Trp	Ala	Asp	Leu	Met	Lys	Asn	Gly	Gln	Val	
				170					175					180	
Arg	Ala	Ser	Ala	Ile	Ala	Gln	Asp	Ala	Asp	Gln	Asn	Tyr	Asp	Tyr	
				185					190					195	
Ala	Ser	Asn	Ser	Val	Ile	Leu	His	Leu	Asp	Val	Gly	Asp	Glu	Val	
				200					205					210	
Phe	Ile	Lys	Leu	Asp	Gly	Gly	Lys	Val	His	Gly	Gly	Asn	Thr	Asn	
				215					220					225	
Lys	Tyr	Ser	Thr	Phe	Ser	Gly	Phe	Ile	Ile	Tyr	Pro	Asp			
				230					235						

<210> 17
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 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 2378119CD1

<400> 17

Met	Ala	Ala	Leu	Gly	Ser	Pro	Ser	His	Thr	Phe	Arg	Gly	Leu	Leu	
1				5					10					15	
Arg	Glu	Leu	Arg	Tyr	Leu	Ser	Ala	Ala	Thr	Gly	Arg	Pro	Tyr	Arg	
				20					25					30	
Asp	Thr	Ala	Ala	Tyr	Arg	Tyr	Leu	Val	Lys	Ala	Phe	Arg	Ala	His	
				35					40					45	
Arg	Val	Thr	Ser	Glu	Lys	Leu	Cys	Arg	Ala	Gln	His	Glu	Leu	His	
				50					55					60	
Phe	Gln	Ala	Ala	Thr	Tyr	Leu	Cys	Leu	Leu	Arg	Ser	Ile	Arg	Lys	
				65					70					75	
His	Val	Ala	Leu	His	Gln	Glu	Phe	His	Gly	Lys	Gly	Glu	Arg	Ser	
				80					85					90	
Val	Glu	Glu	Ser	Ala	Gly	Leu	Val	Gly	Leu	Lys	Leu	Pro	His	Gln	
				95					100					105	
Pro	Gly	Gly	Lys	Gly	Trp	Glu	Pro								
				110											

<210> 18
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<400> 18

Met	Lys	Phe	Arg	Arg	Ile	Leu	Ser	Leu	Phe	Lys	Ser	Ala	Leu	Leu	
1				5					10					15	
Ser	His	Tyr	Gly	Met	Ile	Glu	Gly	Lys	Met	Lys	Arg	Asn	Glu	Arg	
				20					25					30	
Leu	Thr	Thr	Phe	Tyr	Leu	Asp	His	Tyr	Ile	Val	Cys	Ser	Val	Tyr	
				35					40					45	
Ser	Phe	Pro	Ile	Leu	Phe	His	Thr	Pro	Gly	Ile	Leu	Thr	Met	Gly	
				50					55					60	
Phe	Lys	Ala	His	Leu	Glu	Ala	Thr	Leu	Arg	Gln	Gln	Arg	Thr	Gln	
				65					70					75	
Ser	Pro	Leu	Glu	Leu	Leu	Leu	Pro	Leu	Leu	Leu	Cys	Gln	Arg	Ser	
				80					85					90	
Thr	Asn	Ile	Val	Ala	Val	Lys									
				95											

<210> 19
 <211> 147
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 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 4223862CD1

<400> 19
 Met Val Cys Val Leu His Arg Asp Arg Thr Thr Val Ser Ala Thr
 1 5 10 15
 Ala Leu Arg Phe Ser Lys Leu Gly Gly Val Leu Leu Leu Phe
 20 25 30
 Val Ser Ala Ala His Gly Cys Thr Asp Val Gly Asn Arg Glu Val
 35 40 45
 Phe Gly Gln Gly Asp Gly Ser Ala Gly Phe Pro Val Leu Ser Ser
 50 55 60
 Phe Pro Phe Leu Glu Val Leu Ser Phe Arg Gly Phe Glu Ser Cys
 65 70 75
 Asn Lys Arg Ser Ser Leu Ile Asn Phe Gly Leu Phe Pro Leu Asn
 80 85 90
 Val Arg His Leu Ile Leu Asn Phe Phe Leu Val Leu Leu Leu Leu
 95 100 105
 Pro Gly Tyr Phe Val Pro Ser Pro Trp Leu Leu Gly Ser Cys Phe
 110 115 120
 Gln Tyr Ser Ala Ser Cys Phe Pro Phe Ser Trp Asp Pro Ala Leu
 125 130 135
 Ala His Ala Leu Tyr Leu Gly Pro Met Cys Val Asn
 140 145

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 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 6046406CD1

<400> 20
 Met Pro Gln Arg Leu Trp Val Gly Ala Gly Leu Val Pro Thr Ile
 1 5 10 15
 Ala Leu Cys Cys Ser Glu Ala Arg Ala Val Cys Pro Ser Pro Gly
 20 25 30
 Trp Ile Pro Glu Ser Gly Met Thr Gln Ser Pro Val Pro Lys Ser
 35 40 45
 Ser Arg Gly His Arg His Ile Pro Val His Arg Gly Gly Lys Thr
 50 55 60
 His Ala Cys Pro Met Gly Gly Trp Gly Ser Asp Leu His Lys Asp
 65 70 75
 Arg Trp Met Phe Gly Arg Ser Arg Leu Gly Ser Gly Val Arg Ser
 80 85 90
 Ser Pro Pro Glu Val
 95

<210> 21
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<220>
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 <223> Incyte ID No: 6743529CD1

<400> 21
 Met Lys Phe Gln Leu Gly Leu Ser Ala Val Lys Ser Val Ser Gln

1	5	10	15
Ser Val Phe Cys Gly Thr Ser Thr Tyr Cys Val Leu Asn Thr Val			
20	25	30	
Pro Pro Ile Glu Asp Asp His Gly Asn Ser Asn Ser Ser His Val			
35	40	45	
Lys Ile Phe Leu Pro Lys Lys Leu Leu Glu Cys Leu Pro Lys Cys			
50	55	60	
Ser Ser Leu Pro Lys Glu Arg His Arg Trp Asn Thr Asn Glu Arg			
65	70	75	
Ser			

<210> 22

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7283809CD1

<400> 22

Met Met Gly Leu Leu His Leu Ala Leu Leu Ala Leu Ala Pro Leu		
1	5	10
Pro Phe Leu Ser Phe Phe Gly Cys Ser His Ser Val Cys Cys Phe		
20	25	30
Gly Leu Leu Phe Ser Phe Pro Pro Gln Ala Phe Val Phe Pro Arg		
35	40	45
Ala Pro Ser Trp Ala Leu Phe Phe Gln Leu Ile Leu Ser Ile Ser		
50	55	60
Val Ile Phe Val Asn Pro Pro His Ile Cys Pro Ser Gly Pro Ala		
65	70	75
Ser Pro Glu Met His Leu His Ile Ser Ser Cys Leu Leu Val Ile		
80	85	90
Ala Pro Trp Gly Thr Leu Asn Pro Ser Cys Val Pro Leu Thr His		
95	100	105
Pro Pro His Cys Pro His Gly Asp Arg Leu Leu His Cys Leu Ser		
110	115	120
Ser Pro Pro Thr Phe Ser Trp Ser Tyr Ser Ala Asp Gly Phe Gly		
125	130	135
Ser Glu Thr Ser Pro Pro Phe Leu Gln Pro Pro Arg Pro Leu Pro		
140	145	150
Thr Cys Pro Gly		

<210> 23

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7637563CD1

<400> 23

Met Arg Val Pro Trp Gly Pro Pro Asp Ala Gly Leu Gly Leu Tyr		
1	5	10
Phe Cys Gly Pro Arg Ala Leu Trp Gly Leu Gly Pro Thr Gln Leu		
20	25	30
His Thr Ser Leu Trp Gly Gln Asp Val Val Leu Glu Met Pro Lys		
35	40	45
Met Gly Pro Thr Gly Arg Asn Cys Ala Lys Gly Arg Leu Ala Ser		
50	55	60
Thr Arg Arg Phe Leu Gln Leu His Thr Gln Pro Arg Asp Phe Lys		
65	70	75
Glu His Phe Ser Gly Lys Asn Thr His Ser Lys Asn Leu Arg Phe		
80	85	90

Leu	Thr	Pro	Pro	Val	Cys	Thr	Trp	Met	Cys	Asp	Tyr	Phe	Arg	Pro	
				95					100					105	
Val	Ser	Leu	Gln	Gln	Asn	Ile	Leu	His	Asp	Ser	Cys	Pro	Ala	Pro	
				110					115					120	
Arg	Tyr	Leu	Val	Leu	Asp	Leu	Gly	Gly	Gly	Arg	Ser	Cys	Leu	Lys	
				125					130					135	
Thr	Asn	Lys	Gln	Thr	Asn	Lys	Ile	His	Gln	Lys	Gln	Lys	Asn	Arg	
				140					145					150	
Asn	Asn	Arg	Asn	Asn	Cys	Gly	Gly	Trp	Gln						
				155					160						

<210> 24

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7663814CD1

<400> 24

Met	Leu	Ser	Pro	Cys	Pro	Leu	Gln	Leu	Ala	Ala	Pro	Leu	Leu	Leu	
1				5					10					15	
Cys	Gln	Ser	Ser	Leu	Pro	Glu	Pro	Ser	Thr	Thr	Ile	Gly	Lys	Thr	
				20					25					30	
His	His	Pro	His	Met	Lys	Gln	Leu	Thr	Gly	Asn	Asn	Ser	Met	Tyr	
				35					40					45	
His	Thr	Val	His	Ser	Leu	Arg	Val	Thr	Asn	Tyr	Thr	His	Thr	Ser	
				50					55					60	
Pro	Phe	Gln	Asn	Asn	Ala	Asp	Thr	Ile	Phe	Cys	Gly				
				65					70						

<210> 25

<211> 270

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 8001939CD1

<400> 25

Met	Glu	Asn	Gln	Pro	Val	Arg	Trp	Arg	Ala	Leu	Pro	Gly	Leu	Pro	
1				5					10					15	
Arg	Pro	Pro	Gly	Leu	Pro	Ala	Ala	Pro	Trp	Leu	Leu	Leu	Gly	Val	
				20					25					30	
Leu	Leu	Leu	Pro	Gly	Thr	Leu	Arg	Leu	Ala	Gly	Gly	Gln	Ser	Val	
				35					40					45	
Thr	His	Thr	Gly	Leu	Pro	Ile	Met	Ala	Ser	Leu	Ala	Asn	Thr	Ala	
				50					55					60	
Ile	Ser	Phe	Ser	Cys	Arg	Ile	Thr	Tyr	Pro	Tyr	Thr	Pro	Gln	Phe	
				65					70					75	
Lys	Val	Phe	Thr	Val	Ser	Tyr	Phe	His	Glu	Asp	Leu	Gln	Gly	Gln	
				80					85					90	
Arg	Ser	Pro	Lys	Lys	Pro	Thr	Asn	Cys	His	Pro	Gly	Leu	Gly	Thr	
				95					100					105	
Glu	Asn	Gln	Ser	His	Thr	Leu	Asp	Cys	Gln	Val	Thr	Leu	Val	Leu	
				110					115					120	
Pro	Gly	Ala	Ser	Ala	Thr	Gly	Thr	Tyr	Tyr	Cys	Ser	Val	His	Trp	
				125					130					135	
Pro	His	Ser	Thr	Val	Arg	Gly	Ser	Gly	Thr	Phe	Ile	Leu	Val	Arg	
				140					145					150	
Asp	Ala	Gly	Tyr	Arg	Glu	Pro	Pro	Gln	Ser	Pro	Gln	Lys	Leu	Leu	
				155					160					165	
Leu	Phe	Gly	Phe	Thr	Gly	Leu	Leu	Ser	Val	Leu	Ser	Val	Val	Gly	
				170					175					180	
Thr	Ala	Leu	Leu	Leu	Trp	Asn	Lys	Lys	Arg	Met	Arg	Gly	Pro	Gly	

Lys	Asp	Pro	Thr	Arg	Lys	Cys	Pro	Asp	Pro	Arg	Ser	Ala	Ser	Ser	185	190	195
Pro	Lys	Gln	His	Pro	Ser	Glu	Ser	Val	Tyr	Thr	Ala	Leu	Gln	Arg	200	205	210
Arg	Glu	Thr	Glu	Val	Tyr	Ala	Cys	Ile	Glu	Asn	Glu	Asp	Gly	Ser	215	220	225
Ser	Pro	Thr	Ala	Lys	Gln	Ser	Pro	Leu	Ser	Gln	Glu	Arg	Pro	His	230	235	240
Arg	Phe	Glu	Asp	Asp	Gly	Glu	Leu	Asn	Leu	Val	Tyr	Glu	Asn	Leu	245	250	255
				260					265					270			

<210> 26
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 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 8191019CD1

<400> 26

Met	Phe	His	Ser	Val	Ala	Leu	Ala	Leu	Ser	Val	Cys	Ile	Cys	Arg	1	5	10	15
Val	Gly	Pro	Asp	Thr	Pro	Leu	Ser	Pro	Gln	Arg	Gly	Leu	Ala	Leu	20	25	30	35
Ala	Arg	Val	Pro	Ala	Asn	Met	Gln	Glu	Ala	Glu	Asn	Leu	Gly	Arg	40	45	50	55
Lys	Phe	Gln	Pro	Val	Ala	Ile	His	Ser	His	Leu	Gly	Gly	Pro	Ala	60	65	70	75
Ser	Lys	Gly	Ser	Leu	Glu	Ala	Thr	Trp	Ala	Arg	Ala	Gly	Arg	Gly	80	85	90	95
Gly	Pro	Arg	Leu	Gln	Val	Pro	Val	Val	Val	Pro	Thr	Ser	Trp	Ser	100	105	110	115
Phe	Cys	Ser	Ala	Ser	Ile	Ser	Pro	Ser	Leu	Pro	Val	Val	Leu	Ala				
Pro																		

<210> 27
 <211> 181
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 919788CD1

<400> 27

Met	Arg	Met	Arg	Arg	Pro	Leu	Ala	Gly	Gly	Gly	Lys	Ser	Trp	Gly	1	5	10	15
Ile	Ala	His	Phe	Tyr	Lys	Pro	Leu	Gln	Arg	Glu	Arg	Arg	Ala	Gly	20	25	30	35
Ala	Glu	Cys	Gly	Leu	Ala	Arg	Gln	Val	Arg	Ala	Glu	Val	Thr	Lys	40	45	50	55
Trp	Ile	Gly	Val	Asn	Arg	Arg	Pro	Arg	Lys	Arg	Lys	Arg	Arg	Glu	60	65	70	75
Lys	Glu	Glu	Val	Phe	Glu	Lys	Leu	Leu	Pro	Asp	Gln	Leu	Val	Leu	80	85	90	95
Leu	Leu	Glu	His	Leu	Leu	Glu	Gln	Lys	Thr	Leu	Ser	Pro	Arg	Thr	100	105	110	115
Leu	Gln	Ser	Leu	Gln	Arg	Thr	Tyr	His	Leu	Gln	Asp	Gln	Asp	Ala				
Glu	Val	Arg	His	Arg	Trp	Cys	Glu	Leu	Ile	Val	Lys	His	Lys	Phe				

Thr	Lys	Ala	Tyr	Lys	Ser	Val	Glu	Arg	Phe	Leu	Gln	Glu	Asp	Gln	110	115	120
Ala	Met	Gly	Val	Tyr	Leu	Tyr	Gly	Glu	Leu	Met	Val	Ser	Glu	Asp	125	130	135
Ala	Arg	Gln	Gln	Gln	Leu	Ala	Arg	Arg	Cys	Phe	Glu	Arg	Thr	Lys	140	145	150
Glu	Gln	Met	Asp	Arg	Ser	Ser	Ala	Gln	Val	Val	Ala	Glu	Met	Leu	155	160	165
Phe															170	175	180

<210> 28

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4758058CD1

<400> 28

Met	Ser	Ser	Leu	Gln	Ala	Met	Lys	Thr	Leu	Ser	Leu	Val	Leu	Leu	1	5	10	15
Val	Ala	Leu	Ala	Leu	Ser	Pro	Gln	Pro	Gln	Gly	Leu	Arg	Cys	Tyr	20	25	30	35
Arg	Cys	Leu	Ala	Val	Leu	Glu	Gly	Ala	Ser	Cys	Ser	Val	Val	Ser	40	45	50	55
Cys	Pro	Phe	Leu	Asp	Gly	Val	Cys	Val	Ser	Gln	Lys	Val	Ser	Val	60	65	70	75
Phe	Gly	Ser	Glu	Ser	Trp	Gly	Ala	Arg	Ala	Glu	Gly	Arg	Leu	Ser	80	85	90	95
Ala	Val	Val	Asp	Ser	Gln	Ile	Ser	Cys	Cys	Lys	Gly	Asp	Leu	Cys	100	105	110	115
Asn	Ala	Val	Val	Leu	Ala	Ala	Gly	Ser	Pro	Trp	Ala	Leu	Cys	Val	120	125	130	135
Gln	Leu	Leu	Leu	Ser	Leu	Gly	Ser	Val	Phe	Leu	Trp	Ala	Leu	Leu	140	145	150	155

<210> 29

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7499835CD1

<400> 29

Met	Leu	Pro	Pro	Met	Ala	Leu	Pro	Ser	Val	Ser	Trp	Met	Leu	Leu	1	5	10	15
Ser	Cys	Leu	Ile	Leu	Leu	Cys	Gln	Val	Gln	Gly	Glu	Glu	Thr	Gln	20	25	30	35
Lys	Glu	Leu	Pro	Ser	Pro	Arg	Ile	Ser	Cys	Pro	Lys	Gly	Ser	Lys	40	45	50	55
Ala	Tyr	Gly	Ser	Pro	Cys	Tyr	Ala	Leu	Phe	Leu	Ser	Pro	Lys	Ser	60	65	70	75
Trp	Met	Asp	Ala	Asp	Gly	Ser	Glu	Pro	Asp	Gly	Asp	Gly	Trp	Glu	80	85	90	95
Trp	Ser	Ser	Thr	Asp	Val	Met	Asn	Tyr	Phe	Ala	Trp	Glu	Lys	Asn	100	105	110	115
Pro	Ser	Thr	Ile	Leu	Asn	Pro	Gly	His	Cys	Gly	Ser	Leu	Ser	Arg	120	125	130	135
Ser	Thr	Gly	Phe	Leu	Lys	Trp	Lys	Asp	Tyr	Asn	Cys	Asp	Ala	Lys	140	145	150	155
Leu	Pro	Tyr	Val	Cys	Lys	Phe	Lys	Asp							160	165	170	175

125

<210> 30
 <211> 101
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2484647CD1

<400> 30
 Met Glu Arg Thr Leu Ile Pro Ala Pro Thr Leu Ala Ser Leu Cys
 1 5 10 15
 Gln Ala Gln Ala Glu Pro Arg Cys Cys Leu Cys Leu Ser Ala Val
 20 25 30
 Ala Asp Glu Ala Cys Ala Glu His Phe Gly Lys Ser Gly Glu Leu
 35 40 45
 Lys Ala Gln Ala Leu Gly Pro Ile Thr Ala Met Gln Ala Gln Arg
 50 55 60
 Trp Gln Ala Gly Ala His Arg Trp Ile Cys Gln Cys Gln Ser Gln
 65 70 75
 Ser Gly Pro Gln Lys Cys Ser Gly Val Asp Ser His Cys Leu Thr
 80 85 90
 Phe Pro Ser Met Ala Cys Met Arg Asn Gly Arg
 95 100

<210> 31
 <211> 83
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2587034CD1

<400> 31
 Met Gly Phe Phe Asn Tyr Leu Thr Tyr Phe Leu Ala Ala Gly Ala
 1 5 10 15
 Val Thr Leu Gly Ile Gly Phe Phe Ala Leu Ala Ser Ala Leu Trp
 20 25 30
 Phe Leu Ile Cys Lys Arg Arg Glu Ile Phe Gln Asn Ser Lys Phe
 35 40 45
 Lys Ala Ile Asp Glu Arg Cys Arg Gln Arg Pro Ser Met Ala Lys
 50 55 60
 Ile Lys Ser His Ser Gln Cys Val Phe Ile Ser Arg Asn Phe His
 65 70 75
 Thr Gly Arg Phe Gln Leu Gln Phe
 80

<210> 32
 <211> 172
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2702991CD1

<400> 32
 Met Arg Leu Leu Gly Pro Arg Phe Gln Gly Gly Trp Gly Thr His
 1 5 10 15
 Arg Leu Met Pro Arg Gly Val Val Gly Ala Ala Ala Ser Gln Cys
 20 25 30
 Ala Val Val Arg Ala Gly Lys Ala Trp Gly Leu Gly Ser Arg Pro
 35 40 45
 Leu Gly Lys Val Glu Met Glu Asp Pro Asp Ile Leu Thr Ser Pro

	50		55		60
Gly Lys Leu Pro His	Glu Pro Ala Pro Pro	Val Gln Val Cys Glu			
	65		70		75
Leu His Phe Ser Arg	Pro Arg Pro Ala Gln	Glu Ala Ser Ala Phe			
	80		85		90
Pro Phe Leu Val Pro	Asp Ser Val Ser Gln	Met Ala Arg Gly Gly			
	95		100		105
Pro Gly Lys Ala Trp	Gly Gly Gly Val Leu	Glu Glu Gly Pro Gly			
	110		115		120
Glu Gly Ser Thr Gln	Asn Trp Pro Cys Gly	Phe Leu Gln Pro Gly			
	125		130		135
Leu Leu Gly Trp Arg	Gly Asn Ser Lys Glu	Pro Arg Val Leu Pro			
	140		145		150
Phe Asn Asn Gln Cys	Gly Ala Gly Leu Trp	Arg Arg Pro Ala Gly			
	155		160		165
Arg Gln Arg Glu Leu	Gly Thr				
	170				

<210> 33

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2744736CD1

<400> 33

Met Cys Val Gly Val	Cys Gly Ala Tyr Thr	Thr Cys Leu Leu Gln			
1	5	10			15
Trp Cys Val Ser Glu	Val Pro Pro Met Arg	Val Pro Pro Leu Ser			
	20	25			30
Leu Leu Trp Val Gly	Ser Gln Leu Pro Ala	Ala Arg Pro Pro Leu			
	35	40			45
Gly Pro Cys Gly Cys	Val Gln Ala Ser Ala	Ala Ala Pro His Arg			
	50	55			60
Leu Pro Gly Pro Phe	Leu Cys Thr Thr Thr	Ala Ala Leu Arg Pro			
	65	70			75
Val Gln Val Trp Ala	Gly Gln Pro Arg Gly	Gly Asn Pro Ala Gln			
	80	85			90
Glu Gly Cys Gly His	Val Asp Gly Ser Ser	Leu Arg Trp Cys Gly			
	95	100			105
Leu Gly Pro Gly Ser	His Gly Gly Lys Lys	Trp Pro Pro Pro Leu			
	110	115			120
Pro Pro Arg Trp Pro	Arg Gly Trp Pro Pro	Ser Gln Ala Val Ala			
	125	130			135
Gln Val Arg Leu Pro	Arg Glu Asp Arg Arg	Cys Ser Gly Pro Ser			
	140	145			150
Leu Ser Leu Thr Ala	Ala Ser Trp Leu Thr	Thr Gly Ser Gly Val			
	155	160			165
Ser Cys Tyr					

<210> 34

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2915475CD1

<400> 34

Met Leu Pro Leu Tyr	Val Pro Leu Leu Leu	Thr Leu Leu Gly Val			
1	5	10			15
Ser Asn Ala Gln Glu	Leu Thr Pro Val Ser	Gly Leu Cys Cys Phe			
	20	25			30


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<210> 35
<211> 167
<212> PRT
<213> Homo sapiens
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<220>  
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<223> Incyte ID No: 3040427CD1
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<210> 36
<211> 195
<212> PRT
<213> Homo sapiens
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<220>  
<221> misc_feature  
<223> Incyte ID No: 7499722CD1
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22/92

	95		100		105
Leu Ala Thr Lys	Asn Ile Ile Cys Asp	Pro Ser Glu Thr Ser	Ser		
	110		115		120
Thr Thr Asn Arg	Ser Ser Val Thr Leu	Ser Leu Ser Thr Leu	Pro		
	125		130		135
Ser Asp Ser Tyr	Tyr Ser Gln Ser Ile	Glu Ala Ala Asp Asp	Trp		
	140		145		150
Phe Ser Asp Asp	Ser Leu Val Lys Arg	Asn Ser Pro Met Pro	Ser		
	155		160		165
Leu Gly Glu Pro	Leu Met Glu Lys Val	Phe Ser Tyr Leu Ser	Thr		
	170		175		180
Ile Ser Leu Glu	Glu Gly Thr Glu Ser	Val Leu Asn Asp Thr	Leu		
	185		190		195

<210> 37
 <211> 89
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 6776909CD1

<400> 37	
Met Val Pro Lys Pro	Arg Cys Val Leu Gly Trp Thr Pro Thr Pro
1	5 10 15
Leu Asn Leu Val Leu	Trp Pro Gly Arg Ala Ser Gly His Ala Pro
	20 25 30
Cys Ser Cys Pro Trp	Leu Pro Ala Ala Trp Arg Arg Gly Ala Val
	35 40 45
Lys Gln Leu Phe His	Ser Ala Gly Arg Gln Ala Thr Pro Gly Leu
	50 55 60
Val Ile Pro Val Pro	His Cys Ser Trp Asn Ser Asp Ala Asp Leu
	65 70 75
Thr Ala Ala Gly Arg	Arg Gly Val Ser Gly His Arg Lys Asp
	80 85

<210> 38
 <211> 136
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7280438CD1

<400> 38	
Met Arg Ser Val Ala	Leu Pro Ala Val Ala Gly Ala Gly Val Gly
1	5 10 15
Ala Glu Gly Ala Gly	Lys Ala Ala Val Pro Ala Phe Pro Pro Ser
	20 25 30
Thr Phe Ser Arg Ser	Gly Pro Ala Pro Gly Pro Arg Pro Gln Leu
	35 40 45
Pro Gly Gly Val Gln	Ser Ser Gln Asp Cys Pro Ser Arg Val Val
	50 55 60
Pro Val Val Asp Pro	Pro Pro Arg Pro Arg Gly Gly Gly Trp Pro
	65 70 75
Val Trp Trp Trp Pro	Leu Asn Pro Gly Trp Arg Gly Leu Arg Arg
	80 85 90
Trp Gln Trp Gly Asp	His Lys Gly Phe Arg Gly Val Ser Trp Gly
	95 100 105
Tyr Ser Val Cys Gly	Trp Ser Leu Ser Ser Cys Arg Trp Val Glu
	110 115 120
Arg Thr Glu Glu Gly	Pro Gln Gly Ala Glu His Pro Pro Ala Pro
	125 130 135
Ser	

<210> 39
 <211> 420
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7499809CD1

<400> 39

Met	Trp	Leu	Pro	Leu	Val	Leu	Leu	Leu	Ala	Val	Leu	Leu	Leu	Ala
1				5					10					15
Val	Leu	Cys	Lys	Val	Tyr	Leu	Gly	Leu	Phe	Ser	Gly	Ser	Ser	Pro
				20					25					30
Asn	Pro	Phe	Ser	Glu	Asp	Val	Lys	Arg	Pro	Pro	Ala	Pro	Leu	Val
				35					40					45
Thr	Asp	Lys	Glu	Ala	Arg	Lys	Lys	Val	Leu	Lys	Gln	Gly	Ile	His
				50					55					60
Tyr	Ile	Gly	Arg	Met	Glu	Glu	Gly	Ser	Ile	Gly	Arg	Phe	Ile	Leu
				65					70					75
Asp	Gln	Ile	Thr	Glu	Gly	Gln	Leu	Asp	Trp	Ala	Pro	Leu	Ser	Ser
				80					85					90
Pro	Phe	Asp	Ile	Met	Val	Leu	Glu	Gly	Pro	Asn	Gly	Arg	Lys	Glu
				95					100					105
Tyr	Pro	Met	Tyr	Ser	Gly	Glu	Lys	Ala	Tyr	Ile	Gln	Gly	Leu	Lys
				110					115					120
Glu	Lys	Phe	Pro	Gln	Glu	Glu	Ala	Ile	Ile	Asp	Lys	Tyr	Ile	Lys
				125					130					135
Leu	Val	Lys	Val	Val	Ser	Ser	Gly	Ala	Pro	His	Ala	Ile	Leu	Leu
				140					145					150
Lys	Phe	Leu	Pro	Leu	Pro	Val	Val	Gln	Leu	Leu	Asp	Arg	Cys	Gly
				155					160					165
Leu	Leu	Thr	Arg	Phe	Ser	Pro	Phe	Leu	Gln	Ala	Ser	Thr	Gln	Ser
				170					175					180
Leu	Ala	Glu	Val	Leu	Gln	Gln	Leu	Gly	Ala	Ser	Ser	Glu	Leu	Gln
				185					190					195
Ala	Val	Leu	Ser	Tyr	Ile	Phe	Pro	Thr	Tyr	Gly	Val	Thr	Pro	Asn
				200					205					210
His	Ser	Ala	Phe	Ser	Met	His	Ala	Leu	Leu	Val	Asn	His	Tyr	Met
				215					220					225
Lys	Gly	Gly	Phe	Tyr	Pro	Arg	Gly	Gly	Ser	Ser	Glu	Ile	Ala	Phe
				230					235					240
His	Thr	Ile	Pro	Val	Ile	Gln	Arg	Ala	Gly	Gly	Ala	Val	Leu	Thr
				245					250					255
Lys	Ala	Thr	Val	Gln	Ser	Val	Leu	Leu	Asp	Ser	Ala	Gly	Lys	Ala
				260					265					270
Cys	Gly	Val	Ser	Val	Lys	Lys	Gly	His	Glu	Leu	Val	Asn	Ile	Tyr
				275					280					285
Cys	Pro	Ile	Val	Val	Ser	Asn	Ala	Gly	Leu	Phe	Asn	Thr	Tyr	Glu
				290					295					300
His	Leu	Leu	Pro	Gly	Asn	Ala	Arg	Cys	Leu	Pro	Gly	Val	Lys	Gln
				305					310					315
Gln	Leu	Gly	Thr	Val	Arg	Pro	Gly	Leu	Gly	Met	Thr	Ser	Val	Phe
				320					325					330
Ile	Cys	Leu	Arg	Gly	Thr	Lys	Glu	Asp	Leu	His	Leu	Pro	Ser	Thr
				335					340					345
Asn	Tyr	Tyr	Val	Tyr	Tyr	Asp	Thr	Asp	Met	Asp	Gln	Ala	Met	Glu
				350					355					360
Arg	Tyr	Val	Ser	Met	Pro	Arg	Glu	Glu	Ala	Ala	Glu	His	Ile	Pro
				365					370					375
Leu	Leu	Phe	Phe	Ala	Phe	Pro	Ser	Ala	Lys	Asp	Pro	Thr	Trp	Glu
				380					385					390
Asp	Arg	Phe	Pro	Gly	Gly	Glu	Cys	Asp	Cys	Arg	Ile	Pro	Thr	His
				395					400					405
Gln	Pro	Val	Leu	Ser	Gly	Cys	Ser	Pro	Arg	Cys	Leu	Leu	Arg	Gly

410

415

420

<210> 40

<211> 667

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7499921CD1

<400> 40

Met	Asp	Pro	Ser	Ala	Asp	Thr	Trp	Asp	Leu	Phe	Ser	Pro	Leu	Ile
1				5					10					15
Ser	Leu	Trp	Ile	Asn	Arg	Phe	Tyr	Ile	Tyr	Leu	Gly	Phe	Ala	Val
				20					25					30
Ser	Ile	Ser	Leu	Trp	Ile	Cys	Val	Gln	Ile	Val	Ile	Lys	Thr	Gln
				35					40					45
Gly	Lys	Asn	Leu	Gln	Glu	Lys	Ser	Val	Pro	Lys	Ala	Ala	Gln	Asp
				50					55					60
Leu	Met	Thr	Asn	Gly	Tyr	Val	Ser	Leu	Gln	Glu	Lys	Asp	Ile	Phe
				65					70					75
Val	Ser	Gly	Val	Lys	Ile	Phe	Tyr	Gly	Ser	Gln	Thr	Gly	Thr	Ala
				80					85					90
Lys	Gly	Phe	Ala	Thr	Val	Leu	Ala	Glu	Ala	Val	Thr	Ser	Leu	Asp
				95					100					105
Leu	Pro	Val	Ala	Ile	Ile	Asn	Leu	Lys	Glu	Tyr	Asp	Pro	Asp	Asp
				110					115					120
His	Leu	Ile	Glu	Glu	Val	Gly	Lys	Asn	Val	Asp	Lys	Trp	Leu	Trp
				125					130					135
Met	Leu	Gly	Ala	His	Arg	Val	Met	Ser	Arg	Gly	Glu	Gly	Asp	Cys
				140					145					150
Asp	Val	Val	Lys	Ser	Lys	His	Gly	Ser	Ile	Glu	Ala	Asp	Phe	Arg
				155					160					165
Ala	Trp	Lys	Thr	Lys	Phe	Ile	Ser	Gln	Leu	Gln	Ala	Leu	Gln	Lys
				170					175					180
Gly	Glu	Arg	Lys	Lys	Ser	Cys	Gly	Gly	His	Cys	Lys	Lys	Gly	Lys
				185					190					195
Cys	Glu	Ser	His	Gln	His	Gly	Ser	Glu	Glu	Arg	Glu	Glu	Gly	Ser
				200					205					210
His	Glu	Gln	Asp	Glu	Leu	His	His	Arg	Asp	Thr	Glu	Glu	Glu	Glu
				215					220					225
Pro	Phe	Glu	Ser	Ser	Ser	Glu	Glu	Glu	Phe	Gly	Gly	Glu	Asp	His
				230					235					240
Gln	Ser	Leu	Asn	Ser	Ile	Val	Asp	Val	Glu	Asp	Leu	Gly	Lys	Ile
				245					250					255
Met	Asp	His	Val	Lys	Lys	Glu	Lys	Arg	Glu	Lys	Glu	Gln	Gln	Glu
				260					265					270
Glu	Lys	Ser	Gly	Leu	Phe	Arg	Asn	Met	Gly	Arg	Asn	Glu	Asp	Gly
				275					280					285
Glu	Arg	Arg	Ala	Met	Ile	Thr	Pro	Ala	Leu	Arg	Glu	Ala	Leu	Thr
				290					295					300
Lys	Gln	Gly	Tyr	Gln	Leu	Ile	Gly	Ser	His	Ser	Gly	Val	Lys	Leu
				305					310					315
Cys	Arg	Trp	Thr	Lys	Ser	Met	Leu	Arg	Gly	Arg	Gly	Gly	Cys	Tyr
				320					325					330
Lys	His	Thr	Phe	Tyr	Gly	Ile	Glu	Ser	His	Arg	Cys	Met	Glu	Thr
				335					340					345
Thr	Pro	Ser	Leu	Ala	Cys	Ala	Asn	Lys	Cys	Val	Phe	Cys	Trp	Arg
				350					355					360
His	His	Thr	Asn	Pro	Val	Gly	Thr	Glu	Trp	Arg	Trp	Lys	Met	Asp
				365					370					375
Gln	Pro	Glu	Met	Ile	Leu	Lys	Glu	Ala	Ile	Glu	Asn	His	Gln	Asn
				380					385					390
Met	Ile	Lys	Gln	Phe	Lys	Gly	Val	Pro	Gly	Val	Lys	Ala	Glu	Arg
				395					400					405

Phe	Glu	Glu	Gly	Met	Thr	Val	Lys	His	Cys	Ala	Leu	Ser	Leu	Val	
				410					415					420	
Gly	Glu	Pro	Ile	Met	Tyr	Pro	Glu	Ile	Asn	Arg	Phe	Leu	Lys	Leu	
				425					430					435	
Leu	His	Gln	Cys	Lys	Ile	Ser	Ser	Phe	Leu	Val	Thr	Asn	Ala	Gln	
				440					445					450	
Phe	Pro	Ala	Glu	Ile	Arg	Asn	Leu	Glu	Pro	Val	Thr	Gln	Leu	Tyr	
				455					460					465	
Val	Ser	Val	Asp	Ala	Ser	Thr	Lys	Asp	Ser	Leu	Lys	Lys	Ile	Asp	
				470					475					480	
Arg	Pro	Leu	Phe	Lys	Asp	Phe	Trp	Gln	Arg	Phe	Leu	Asp	Ser	Leu	
				485					490					495	
Lys	Ala	Leu	Ala	Val	Lys	Gln	Gln	Arg	Thr	Val	Tyr	Arg	Leu	Thr	
				500					505					510	
Leu	Val	Lys	Ala	Trp	Asn	Val	Asp	Glu	Leu	Gln	Ala	Tyr	Ala	Gln	
				515					520					525	
Leu	Val	Ser	Leu	Gly	Asn	Pro	Asp	Phe	Ile	Glu	Val	Lys	Gly	Val	
				530					535					540	
Thr	Tyr	Cys	Gly	Glu	Ser	Ser	Ala	Ser	Ser	Leu	Thr	Met	Ala	His	
				545					550					555	
Val	Pro	Trp	His	Glu	Glu	Val	Val	Gln	Phe	Val	His	Glu	Leu	Val	
				560					565					570	
Asp	Leu	Ile	Pro	Glu	Tyr	Glu	Ile	Ala	Cys	Glu	His	Glu	His	Ser	
				575					580					585	
Asn	Cys	Leu	Leu	Ile	Ala	His	Arg	Lys	Phe	Lys	Ile	Gly	Gly	Glu	
				590					595					600	
Trp	Trp	Thr	Trp	Ile	Asp	Tyr	Asn	Arg	Phe	Gln	Glu	Leu	Ile	Gln	
				605					610					615	
Glu	Tyr	Glu	Asp	Ser	Gly	Gly	Ser	Lys	Thr	Phe	Ser	Ala	Lys	Asp	
				620					625					630	
Tyr	Met	Ala	Arg	Thr	Pro	His	Trp	Ala	Leu	Phe	Gly	Ala	Ser	Glu	
				635					640					645	
Arg	Gly	Phe	Asp	Pro	Lys	Asp	Thr	Arg	His	Gln	Arg	Lys	Asn	Lys	
				650					655					660	
Ser	Lys	Ala	Ile	Ser	Gly	Cys									
				665											

<210> 41

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705858CD1

<400> 41

Met	Ala	Leu	Phe	Ser	Ser	Phe	Phe	Thr	Leu	Ser	Val	Leu	His	Leu	
1				5					10					15	
Cys	Thr	Ser	Gln	Thr	Ile	Met	Ala	Gln	Arg	Gln	Val	Met	Ser	Pro	
				20					25					30	
Pro	Thr	Leu	Trp	Leu	His	Ser	Cys	Asp	Tyr	Val	Met	His	Gly	Ile	
				35					40					45	
Val	Arg	Leu	Cys	Ser	Asn	Pro	Thr	Val	Ser	Tyr	Cys	Ala	Gly	Cys	
				50					55					60	
Val	Pro	Gln	Pro	Ile	Leu	Asp	Cys	Ser	Thr	Ala	Ile	Val	Leu	Thr	
				65					70					75	
Ile	Thr	Tyr	Cys	Lys	Asp	Ser	Met								
				80											

<210> 42

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3069892CD1

<400> 42

Met	Asn	Thr	Gly	Trp	Ser	Ser	Asn	Lys	Gly	Phe	Pro	Cys	Ile	Leu
1				5					10					15
Cys	Leu	Pro	Ala	Met	Gly	Ala	Gln	Ala	Gln	Val	Leu	Pro	Pro	Leu
				20					25					30
Tyr	Cys	Tyr	Trp	Phe	Val	Thr	Ile	Leu	Leu	Ala	Arg	Met	Val	Val
				35					40					45
Ser	Ser	Arg	Glu	Glu	Ala	Thr	Glu	Phe	Pro	Thr	Arg	Glu	Thr	Gly
				50					55					60
Leu	Ser	Arg	His	Asp	Leu	His	Thr	Leu	Ala	Gln	Thr	Pro	Glu	Asp
				65					70					75
Thr	Asp	Leu	Gly	Pro										
				80										

<210> 43

<211> 367

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3069586CD1

<400> 43

Met	Val	Leu	Ile	Gln	Glu	Met	Ala	Leu	Lys	Ile	Asp	Gln	Gly	Phe
1				5					10					15
Leu	Gly	Ala	Ile	Ile	Ala	Leu	Phe	Thr	Pro	Thr	Thr	Asp	Pro	Glu
				20					25					30
Ala	Glu	Arg	Arg	Arg	Thr	Lys	Leu	Ile	Gln	Gln	Asp	Ile	Asp	Ala
				35					40					45
Leu	Asn	Ala	Glu	Leu	Met	Glu	Thr	Ser	Met	Thr	Asp	Met	Ser	Ile
				50					55					60
Leu	Ser	Phe	Phe	Glu	His	Phe	His	Ile	Ser	Pro	Val	Lys	Leu	His
				65					70					75
Leu	Ser	Leu	Ser	Leu	Gly	Ser	Gly	Gly	Glu	Glu	Ser	Asp	Lys	Glu
				80					85					90
Lys	Gln	Glu	Met	Phe	Ala	Val	His	Ser	Val	Asn	Leu	Leu	Leu	Lys
				95					100					105
Ser	Ile	Gly	Ala	Thr	Leu	Thr	Asp	Val	Asp	Asp	Leu	Ile	Phe	Lys
				110					115					120
Leu	Ala	Tyr	Tyr	Glu	Ile	Arg	Tyr	Gln	Phe	Tyr	Lys	Arg	Asp	Gln
				125					130					135
Leu	Ile	Trp	Ser	Val	Val	Arg	His	Tyr	Ser	Glu	Gln	Phe	Leu	Lys
				140					145					150
Gln	Met	Tyr	Val	Leu	Val	Leu	Gly	Leu	Asp	Val	Leu	Gly	Asn	Pro
				155					160					165
Phe	Gly	Leu	Ile	Arg	Gly	Leu	Ser	Glu	Gly	Val	Glu	Ala	Leu	Phe
				170					175					180
Tyr	Glu	Pro	Phe	Gln	Gly	Ala	Val	Gln	Gly	Pro	Glu	Glu	Phe	Ala
				185					190					195
Glu	Gly	Leu	Val	Ile	Gly	Val	Arg	Ser	Leu	Phe	Gly	His	Thr	Val
				200					205					210
Gly	Gly	Ala	Ala	Gly	Val	Val	Ser	Arg	Ile	Thr	Gly	Ser	Val	Gly
				215					220					225
Lys	Gly	Leu	Ala	Ala	Ile	Thr	Met	Asp	Lys	Glu	Tyr	Gln	Gln	Lys
				230					235					240
Arg	Arg	Glu	Glu	Leu	Ser	Arg	Gln	Pro	Arg	Asp	Phe	Gly	Asp	Ser
				245					250					255
Leu	Ala	Arg	Gly	Gly	Lys	Gly	Phe	Leu	Arg	Gly	Val	Val	Gly	Gly
				260					265					270
Val	Thr	Gly	Ile	Ile	Thr	Lys	Pro	Val	Glu	Gly	Ala	Lys	Lys	Glu
				275					280					285
Gly	Ala	Ala	Gly	Phe	Phe	Lys	Gly	Ile	Gly	Lys	Gly	Leu	Val	Gly
				290					295					300
Ala	Val	Ala	Arg	Pro	Thr	Gly	Gly	Ile	Val	Asp	Met	Ala	Ser	Ser

Thr Phe Gln Gly	305	Gln Arg Ala Ala	310	Glu Ser Thr Glu Glu Val	315
	320		325		330
Ser Ser Leu Arg	335	Pro Arg Leu Ile	340	His Glu Asp Gly Ile Ile	345
Arg Pro Tyr Asp	350	Arg Gln Glu Ser Glu	355	Gly Ser Asp Leu Leu Glu	360
Gln Glu Leu Glu	365	Gln Glu			

<210> 44

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7500104CD1

<400> 44

Met Leu Leu Ile Leu	5	Leu Ser Val Ala Leu	10	Leu Ala Phe Ser Ser	15
Ala Gln Asp Leu Asn	20	Glu Asp Gly Gly Asp	25	Ser Glu Gln Phe Ile	30
Asp Glu Glu Arg Gln	35	Gly Pro Pro Leu Gly	40	Gly Gln Gln Ser Gln	45
Pro Ser Ala Gly Asp	50	Gly Asn Gln Asp Asp	55	Gly Pro Gln Gln Gly	60
Pro Pro Gln Gln Gly	65	Gly Gln Gln Gln Gln	70	Gly Pro Pro Pro Pro	75
Gln Gly Lys Pro Gln	80	Gly Pro Pro Gln Gln	85	Gly Gly His Pro Pro	90
Pro Pro Gln Gly Arg	95	Pro Gln Gly Pro Pro	100	Gln Gln Gly Gly His	105
Pro Arg Pro Pro Arg	110	Gly Arg Pro Gln Gly	115	Pro Pro Gln Gln Gly	120
Gly His Gln Gln Gly	125	Pro Pro Pro Pro Pro	130	Pro Gly Lys Pro Gln	135
Gly Pro Pro Pro Gln	140	Gly Gly Arg Pro Gln	145	Gly Pro Pro Gln Gly	150
Gln Ser Pro Gln					

<210> 45

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7500203CD1

<400> 45

Met Leu Pro Pro Met	5	Ala Leu Pro Ser Val	10	Ser Trp Met Leu Leu	15
Ser Cys Leu Ile Leu	20	Leu Cys Gln Val Gln	25	Gly Glu Glu Thr Gln	30
Lys Glu Leu Pro Ser	35	Pro Arg Ile Ser Cys	40	Pro Lys Gly Ser Lys	45
Ala Tyr Gly Ser Pro	50	Cys Tyr Ala Leu Phe	55	Leu Ser Pro Lys Ser	60
Trp Met Asp Ala Asp	65	Gly Ser Glu Pro Asp	70	Gly Asp Gly Trp Glu	75
Trp Ser Ser Thr Asp	80	Val Met Asn Tyr Phe	85	Ala Trp Glu Lys Asn	90
Pro Ser Thr Ile Leu	95	Asn Pro Gly His Cys	100	Gly Ser Leu Ser Arg	105

Ser Thr Gly Phe Leu Lys Trp Lys Asp Tyr Asn Cys Asp Ala Lys
 110 115 120
 Leu Pro Tyr Val Cys Lys Phe Lys Asp
 125

<210> 46
 <211> 116
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4843802CD1

<400> 46
 Met Lys Gly Ala Arg Asp Ala Ser Pro Ser Leu Ser Trp Ala Ala
 1 5 10 15
 Ala Ala Val Gly Ser Ala Leu Gly Arg Ala Gly Glu Gly Thr Ser
 20 25 30
 Met Val Gly Cys Lys Lys Pro Leu Gly Gln Gln Ile Pro Arg Pro
 35 40 45
 Phe Pro Thr Cys Ser Thr Ser Trp Pro Leu Gly Cys Phe Leu His
 50 55 60
 Leu Glu His Ser Ser Ser Arg Lys Pro Arg Gly Ser Leu Ser Asp
 65 70 75
 Phe Leu Gln Glu Val Ser Leu Leu Thr Gly Pro Ser Leu Thr Thr
 80 85 90
 Gln Asp Lys Ser Val His Ala Leu Ser Leu Pro Pro Pro Thr Leu
 95 100 105
 Pro Arg Pro Ser Asp Leu Pro Ala His Cys Trp
 110 115

<210> 47
 <211> 84
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 5877522CD1

<400> 47
 Met Arg Leu Phe Ile Leu Phe Ser Pro Gly Leu Ala Trp Thr His
 1 5 10 15
 Arg Gln Gln Gln Gln His His His His His His His His His
 20 25 30
 His His His His His His His His His Gln Trp Leu Ser Pro His
 35 40 45
 Cys Ala Ser Trp Glu Pro Gly Ser Ala Ser Arg Leu His Gly His
 50 55 60
 Tyr Arg Arg Glu Gln Ser His Leu Ser Gly Ser Cys Gly Lys Arg
 65 70 75
 Pro Arg Val Asp Leu Thr Gln Val Cys
 80

<210> 48
 <211> 83
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 617491CD1

<400> 48
 Met Ala Asn Ala Pro Pro Pro Cys Cys Ser Ser Ser Cys Ser Cys
 1 5 10 15


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Phe Leu Leu Pro Ser Leu Leu Ala Trp Asn Ser His Ser Asp Ser
      20      25      30
Pro Asn His Asp Thr Gln Asn Ala Thr Ser Lys Lys Asn Ile Arg
      35      40      45
Val Gly Ala Ser Ala Ser Ser Glu Leu Thr Ser Leu Leu Cys Pro
      50      55      60
Leu Leu Thr Arg Pro Pro Phe Ser Phe Gly Cys Asn Ser Phe Gln
      65      70      75
Pro Pro His Ser Phe Asp Arg Arg
      80

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<210> 49
<211> 133
<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 6289901CD1

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<400> 49
Met Met Cys Tyr Ala Phe Trp Pro Ala Asp Val Gln Val Asp Ser
  1      5      10      15
Asp Leu Arg His Ile Gln Lys Tyr Val Cys Ile Leu Ala Leu Gly
      20      25      30
Leu Cys Ile Ser Ser Ser Leu Gly His Ser Thr Lys His Phe Gln
      35      40      45
Lys Gly Trp Ser Leu Pro Leu Asn Trp Phe Leu Leu Leu Ala Thr
      50      55      60
Ala Phe Gln Leu Asp Phe Gly Lys Ser Pro Tyr Ser Phe Lys Thr
      65      70      75
Ile Val Ser Pro Leu Ala Ser Phe Gln Val Ser Tyr Glu Ser Met
      80      85      90
Arg Ser Leu His Pro Met Ser Ser Lys Glu Leu Ile Met Leu Arg
      95     100     105
Leu Ala Gly Asp Leu Arg Thr Leu Thr Ser Ile Met Asn Cys Asp
     110     115     120
Arg Lys Glu Cys Ile Leu Leu Thr Asn Pro Pro Ala Val
     125     130

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<210> 50
<211> 117
<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 6817709CD1

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<400> 50
Met Lys Met Thr Ser Ile Phe Cys Leu Pro Val Ser Gly Glu Ala
  1      5      10      15
Trp Pro Glu Glu Pro Lys Lys Gly Phe Ser Ala Leu Thr Leu Thr
      20      25      30
Asp Leu Glu Leu Gly Gln Thr Pro Leu Pro Leu Leu Ala His Phe
      35      40      45
Pro Ile Cys Lys Met Gly Ser Leu Glu Glu Met Ile Pro Glu Val
      50      55      60
Cys Ser Ser Ser Asn Cys Asn Thr Gly Ser Asn Trp Cys Leu Ser
      65      70      75
Ser Leu Val Cys Ala Glu Pro Arg Glu Thr Lys Asp Gly Met Val
      80      85      90
Val His Thr Cys Asn Pro Ser Ser Pro Leu Cys Thr Gln Trp Pro
      95     100     105
Glu His Ser Tyr His Val Ser Ala Leu Asn Leu Gln
     110     115

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<210> 51
 <211> 99
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 6849312CD1

<400> 51
 Met His Lys Phe Leu Cys Ser Lys Ile Tyr Leu Tyr Phe Leu Leu
 1 5 10 15
 Leu Cys Leu Asn Phe Ser His Ser Trp Arg Asp Phe His Cys Thr
 20 25 30
 Glu Val Arg Glu Glu Asp Thr His Val Phe Cys Asn Tyr Ala Tyr
 35 40 45
 Thr Val Asp Pro His Phe Phe Val Asp Leu Val Phe Val Cys Leu
 50 55 60
 Pro Pro Cys Gln Ser Leu Phe Val Thr Pro Lys Leu Met Ile Leu
 65 70 75
 Leu Val Ser Trp Ser Phe Ala Asp Met Cys Arg Ala Val Lys Tyr
 80 85 90
 Gly Val Thr Asn Val His Val Pro Ile
 95

<210> 52
 <211> 114
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7409581CD1

<400> 52
 Met Leu Gln Gln Arg Gln Asp Leu Leu Thr Leu His Ser Gln Pro
 1 5 10 15
 Ile Trp Tyr Leu Trp Phe Arg Leu Phe Phe Trp Val Val Leu Arg
 20 25 30
 Val Ser Gln Gly Thr Met Lys Ser Gln Arg Val Met Cys Ile Leu
 35 40 45
 Pro Ser Pro Ser Ala Phe Pro Ala Glu Arg Arg Gly Ser Pro Ser
 50 55 60
 Ser Gly Arg Gly Lys Ser Pro Pro Pro Ala Gln Leu Leu His Pro
 65 70 75
 Ala Gln Gly Arg Trp Asp Phe Val Ala Thr Ile Leu Cys Thr Val
 80 85 90
 Tyr Ser Glu Leu Lys His Ser Gly Trp Pro Gly Thr Val Ala His
 95 100 105
 Ser Cys Asn Pro Ser Thr Leu Gly Gly
 110

<210> 53
 <211> 699
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7437113CD1

<400> 53
 Met Ala Asp Pro Glu Val Cys Cys Phe Ile Thr Lys Ile Leu Cys
 1 5 10 15
 Ala His Gly Gly Arg Met Ala Leu Asp Ala Leu Leu Gln Glu Ile
 20 25 30
 Ala Leu Ser Glu Pro Gln Leu Cys Glu Val Leu Gln Val Ala Gly

Pro	Asp	Arg	Phe	Val	Val	Leu	Glu	Thr	Gly	Gly	Glu	Ala	Gly	Ile	35	40	45
Thr	Arg	Ser	Val	Val	Ala	Thr	Thr	Arg	Ala	Arg	Val	Cys	Arg	Arg	50	55	60
Lys	Tyr	Cys	Gln	Arg	Pro	Cys	Asp	Asn	Leu	His	Leu	Cys	Lys	Leu	65	70	75
Asn	Leu	Leu	Gly	Arg	Cys	Asn	Tyr	Ser	Gln	Ser	Glu	Arg	Asn	Leu	80	85	90
Cys	Lys	Tyr	Ser	His	Glu	Val	Leu	Ser	Glu	Glu	Asn	Phe	Lys	Val	95	100	105
Leu	Lys	Asn	His	Glu	Leu	Ser	Gly	Leu	Asn	Lys	Glu	Glu	Leu	Ala	110	115	120
Val	Leu	Leu	Leu	Gln	Ser	Asp	Pro	Phe	Phe	Met	Pro	Glu	Ile	Cys	125	130	135
Lys	Ser	Tyr	Lys	Gly	Glu	Gly	Arg	Gln	Gln	Ile	Cys	Asn	Gln	Gln	140	145	150
Pro	Pro	Cys	Ser	Arg	Leu	His	Ile	Cys	Asp	His	Phe	Thr	Arg	Gly	155	160	165
Asn	Cys	Arg	Phe	Pro	Asn	Cys	Leu	Arg	Ser	His	Asn	Leu	Met	Asp	170	175	180
Arg	Lys	Val	Leu	Ala	Ile	Met	Arg	Glu	His	Gly	Leu	Asn	Pro	Asp	185	190	195
Val	Val	Gln	Asn	Ile	Gln	Asp	Ile	Cys	Asn	Ser	Lys	His	Met	Gln	200	205	210
Lys	Asn	Pro	Pro	Gly	Pro	Arg	Ala	Pro	Ser	Ser	His	Arg	Arg	Asn	215	220	225
Met	Ala	Tyr	Arg	Ala	Arg	Ser	Lys	Ser	Arg	Asp	Arg	Phe	Phe	Gln	230	235	240
Gly	Ser	Gln	Glu	Phe	Leu	Ala	Ser	Ala	Ser	Ala	Ser	Ala	Glu	Arg	245	250	255
Ser	Cys	Thr	Pro	Ser	Pro	Asp	Gln	Ile	Ser	His	Arg	Ala	Ser	Leu	260	265	270
Glu	Asp	Ala	Pro	Val	Asp	Asp	Leu	Thr	Arg	Lys	Phe	Thr	Tyr	Leu	275	280	285
Gly	Ser	Gln	Asp	Arg	Ala	Arg	Pro	Pro	Ser	Gly	Ser	Ser	Lys	Ala	290	295	300
Thr	Asp	Leu	Gly	Gly	Thr	Ser	Gln	Ala	Gly	Thr	Ser	Gln	Arg	Phe	305	310	315
Leu	Glu	Asn	Gly	Ser	Gln	Glu	Asp	Leu	Leu	His	Gly	Asn	Pro	Gly	320	325	330
Ser	Thr	Tyr	Leu	Ala	Ser	Asn	Ser	Thr	Ser	Ala	Pro	Asn	Trp	Lys	335	340	345
Ser	Leu	Thr	Ser	Trp	Thr	Asn	Asp	Gln	Gly	Ala	Arg	Arg	Lys	Thr	350	355	360
Val	Phe	Ser	Pro	Thr	Leu	Pro	Ala	Ala	Arg	Ser	Ser	Leu	Gly	Ser	365	370	375
Leu	Gln	Thr	Pro	Glu	Ala	Val	Thr	Thr	Arg	Lys	Gly	Thr	Gly	Leu	380	385	390
Leu	Ser	Ser	Asp	Tyr	Arg	Ile	Ile	Asn	Gly	Lys	Ser	Gly	Thr	Gln	395	400	405
Asp	Ile	Gln	Pro	Gly	Pro	Leu	Phe	Asn	Asn	Asn	Ala	Asp	Gly	Val	410	415	420
Ala	Thr	Asp	Ile	Thr	Ser	Thr	Arg	Ser	Leu	Asn	Tyr	Lys	Ser	Thr	425	430	435
Ser	Ser	Gly	His	Arg	Glu	Ile	Ser	Ser	Pro	Arg	Ile	Gln	Asp	Ala	440	445	450
Gly	Pro	Ala	Ser	Arg	Asp	Val	Gln	Ala	Thr	Gly	Arg	Ile	Ala	Asp	455	460	465
Asp	Ala	Asp	Pro	Arg	Val	Ala	Leu	Val	Asn	Asp	Ser	Leu	Ser	Asp	470	475	480
Val	Thr	Ser	Thr	Thr	Ser	Ser	Arg	Val	Asp	Asp	His	Asp	Ser	Glu	485	490	495
Glu	Ile	Cys	Leu	Asp	His	Leu	Cys	Lys	Gly	Cys	Pro	Leu	Asn	Gly	500	505	510
Ser	Cys	Ser	Lys	Val	His	Phe	His	Leu	Pro	Tyr	Arg	Trp	Gln	Met	515	520	525
															530	535	540

Leu	Ile	Gly	Lys	Thr	Trp	Thr	Asp	Phe	Glu	His	Met	Glu	Thr	Ile	
				545					550					555	
Glu	Lys	Gly	Tyr	Cys	Asn	Pro	Gly	Ile	His	Leu	Cys	Ser	Val	Gly	
				560					565					570	
Ser	Tyr	Thr	Ile	Asn	Phe	Arg	Val	Met	Ser	Cys	Asp	Ser	Phe	Pro	
				575					580					585	
Ile	Arg	Arg	Leu	Ser	Thr	Pro	Ser	Ser	Val	Thr	Lys	Pro	Ala	Asn	
				590					595					600	
Ser	Val	Phe	Thr	Thr	Lys	Trp	Ile	Trp	Tyr	Trp	Lys	Asn	Glu	Ser	
				605					610					615	
Gly	Thr	Trp	Ile	Gln	Tyr	Gly	Glu	Glu	Lys	Asp	Lys	Arg	Lys	Asn	
				620					625					630	
Ser	Asn	Val	Asp	Ser	Ser	Tyr	Leu	Glu	Ser	Leu	Tyr	Gln	Ser	Cys	
				635					640					645	
Pro	Arg	Gly	Val	Val	Pro	Phe	Gln	Ala	Gly	Ser	Arg	Asn	Tyr	Glu	
				650					655					660	
Leu	Ser	Phe	Gln	Gly	Met	Ile	Gln	Thr	Asn	Ile	Ala	Ser	Lys	Thr	
				665					670					675	
Gln	Lys	Asp	Val	Ile	Arg	Arg	Pro	Thr	Phe	Val	Pro	Gln	Trp	Tyr	
				680					685					690	
Val	Gln	Gln	Met	Lys	Arg	Gly	Pro	Glu							
				695											

<210> 54

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7500260CD1

<400> 54

Met	Ala	Leu	Cys	Pro	Gly	Gly	Ser	Pro	Gln	His	Gln	Asp	Leu	Ala	
1				5					10					15	
Gly	Gln	Leu	Val	Val	His	Glu	Leu	Phe	Ser	Ser	Val	Leu	Gln	Glu	
				20					25					30	
Ile	Cys	Asp	Glu	Val	Asn	Leu	Pro	Leu	Leu	Thr	Leu	Ser	Gln	Pro	
				35					40					45	
Leu	Leu	Leu	Gly	Ile	Ala	Arg	Asn	Glu	Thr	Ser	Ala	Gly	Arg	Ala	
				50					55					60	
Ser	Ala	Glu	Phe	Tyr	Val	Gln	Cys	Ser	Leu	Thr	Ser	Glu	Gln	Val	
				65					70					75	
Arg	Lys	His	Tyr	Leu	Ser	Gly	Gly	Pro	Glu	Ala	His	Glu	Ser	Thr	
				80					85					90	
Gly	Ile	Phe	Phe	Val	Glu	Thr	Gln	Asn	Val	Arg	Arg	Leu	Pro	Glu	
				95					100					105	
Thr	Glu	Met	Trp	Ala	Glu	Leu	Cys	Pro	Ser	Ala	Lys	Gly	Ala	Ile	
				110					115					120	
Ile	Leu	Tyr	Asn	Arg	Val	Gln	Gly	Ser	Pro	Thr	Gly	Ala	Ala	Leu	
				125					130					135	
Gly	Ser	Pro	Ala	Leu	Leu	Pro	Pro	Leu							
				140											

<210> 55

<211> 382

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7659504CD1

<400> 55

Met	Pro	Pro	Leu	Lys	Leu	Pro	Lys	Arg	Gly	Leu	Glu	Phe	Trp	Lys	
1				5					10					15	
Leu	Ser	Ala	Ala	Asp	Val	Ser	Gly	Val	Trp	Ala	Met	Val	Phe	Ala	

	20		25		30
Gln Arg Gly Asp Gly Ala Gln Met Gln Gly Pro Leu Met Val Thr					
	35		40		45
Ala Val Ser Gly Ala Val Lys Asp Gly Pro Gly Ser Gly Leu His					
	50		55		60
Phe Pro Glu Cys Thr Val Pro Arg Ala Thr Ser Cys Gln Pro Ser					
	65		70		75
Val Pro Leu Gly Leu Ile Glu Arg Ser Arg Asn Leu Pro Pro Ser					
	80		85		90
Arg Asp Arg Arg Ala Gly Ser Ala Phe Pro Ala Arg Cys Leu Thr					
	95		100		105
Lys Lys Glu Ser Arg Glu Gly Leu Val Asp Leu Met Phe Met Leu					
	110		115		120
Val Gly Asn Leu Ile Asn Val Arg Asn Val Gly Lys Pro Ile Phe					
	125		130		135
Gly Ala His Thr Leu Leu Asp Ile Ser Glu Phe Ile Leu Ala Gly					
	140		145		150
Asn Leu Met Asn Val Ser Asn Ala Gly Arg Leu Leu Leu Gly Leu					
	155		160		165
Arg Ile Leu Leu Asn Met Arg Lys Phe Thr Met Arg Gly Asn Pro					
	170		175		180
Met Asn Val Arg Asn Val Glu Arg Pro Phe Phe Met Ala Gln Ser					
	185		190		195
Leu Ile Asp Ile Arg Lys Phe Ile Leu Val Arg Glu Thr Met Asn					
	200		205		210
Val Arg Asn Val Glu Arg Pro Phe Phe Val Val Gln Asn Leu Ile					
	215		220		225
Asp Thr Arg Lys Phe Ile Leu Glu Arg Gly His Met Asn Val Lys					
	230		235		240
Asn Val Glu Lys Pro Phe Ser Gly Val His Asn Leu Leu Asp Ile					
	245		250		255
Arg Glu Cys Ile Leu Val Arg Asn Leu Thr Tyr Val Lys Asn Val					
	260		265		270
Gly Asn Leu Leu Ser Gly Val His Ser Leu His Asp Ile Arg Lys					
	275		280		285
Phe Ile Leu Met Gln Asn Leu Met Asp Ala Arg Lys Val Ala Thr					
	290		295		300
Ser Leu Val Thr Ile His Ile Leu Leu Asn Lys Lys Phe Ile Ile					
	305		310		315
Val Gln Ile Ser Val Asn Gly Gln Thr Met Gly Thr Pro Leu Val					
	320		325		330
Met Ser Gln Thr Leu Leu Asn Thr Arg Ile Phe Thr Leu Leu Arg					
	335		340		345
Asn Pro Met Asn Leu Lys Ile Leu Arg Lys His Phe Leu Gln Ala					
	350		355		360
Leu Thr Ser Phe His Ser Cys Glu Ile Leu Tyr Lys Ser Val Gly					
	365		370		375
Arg Ala Leu Phe Met Thr His					
	380				

<210> 56

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 821165CD1

<400> 56

Met Arg Pro Pro Ile Trp Ser Leu Leu Ser Ser Leu Pro Leu Pro					
1	5		10		15
Gly Ala Pro Pro Pro Thr Pro Ser Ser Leu Pro Pro Ser Pro Leu					
	20		25		30
Gly Pro Pro Pro Ala Trp Ala Pro Val Cys Leu Ser Pro Ala Ser					
	35		40		45
Gln Gln Asn Cys Gly Ser Met Ser Arg Asp Lys Val Leu Arg Gly					

Thr Gly Phe Gly	50	Arg Tyr Phe Ala Ala Gly	60
Pro Phe Leu Pro Ala	55		
	65		75
Arg Gly Gly Cys Ile	80	Pro Gln Ser Thr Thr Ser	90
Phe Ser Ser			

<210> 57
 <211> 110
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7499672CD1

Met Thr Glu Trp Pro Ser Pro Gly Lys Thr Ser Val Val Thr Gly	57
1 5 10 15	
Ile Lys Leu Trp Asn Val Arg Val Lys Ala Arg Val Cys Cys Glu	20 25 30
Leu Glu Leu Arg Glu Cys Leu Gly Ile Pro Pro Gly Ile Ser Lys	35 40 45
Gly Thr Met Ala Thr Ala Ser Leu Ala His Val Arg His Leu Leu	50 55 60
Cys Gln Ala Phe Ser Val Val Glu Lys Gly Gly Arg Arg Met Gln	65 70 75
Leu Phe Gln Cys Cys Leu Ala Val Pro Lys Ser Arg Asp Trp Ala	80 85 90
Pro His Leu Thr Ser Asn Phe Arg Phe Thr Leu Gly His Ser Cys	95 100 105
Leu Pro Leu Gln Ser	110

<210> 58
 <211> 115
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7500276CD1

Met Arg Phe Leu Ala Ala Thr Phe Leu Leu Leu Ala Leu Ser Thr	58
1 5 10 15	
Ala Ala Gln Ala Glu Pro Val Gln Phe Lys Asp Cys Asp Ile Gln	20 25 30
Ser Lys Ser Ser Lys Ala Val Val His Gly Ile Leu Met Gly Val	35 40 45
Pro Val Pro Phe Pro Ile Pro Glu Pro Asp Gly Cys Lys Ser Gly	50 55 60
Ile Asn Cys Pro Ile Gln Lys Asp Lys Thr Tyr Ser Tyr Leu Asn	65 70 75
Lys Leu Pro Val Lys Ser Glu Tyr Pro Ser Ile Lys Leu Val Val	80 85 90
Glu Trp Gln Leu Gln Asp Asp Lys Asn Gln Ser Leu Phe Cys Trp	95 100 105
Glu Ile Pro Val Gln Ile Val Ser His Leu	110 115

<210> 59
 <211> 161
 <212> PRT
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1440723CD1

<400> 59

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Met Ala Pro Ser Gln Val Phe Gly Leu Cys Leu Thr Thr Phe Ser
 1          5          10          15
Leu Glu Lys Cys Gly Val Lys Ser Asp Met Gly Leu His Arg Gln
          20          25          30
Pro Pro Gly Gly Gly Gly Leu Ala Pro Pro Ala Ala Gly Gly Cys
          35          40          45
His Gly His Leu Gln Gly Trp Leu Ser Gly Pro Ser Val Glu Ala
          50          55          60
His Gln Glu Ala Pro Pro Val Pro Gly Leu Ser Gln Glu His Arg
          65          70          75
Pro Gly Arg Gly Arg Ala Gly Gly Gln Trp His Glu Val Arg His
          80          85          90
Gly Val Gly Pro Thr Pro Gln Ala Ala His His Pro Gln Pro Pro
          95          100          105
Cys Ser Val Cys Lys Met Gly Pro Gln Trp Gly Leu Gly Arg Gly
          110          115          120
Glu Asn Cys Pro Leu Pro Gln Ala Arg Ser Pro Glu Ser Trp Arg
          125          130          135
Pro Ala Ser Pro Pro His Pro Ala Pro Pro Gln Gln Thr Leu Leu
          140          145          150
Pro Val Gly Arg Cys Ala Arg Leu Gly Pro Leu
          155          160

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<210> 60

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7479612CD1

<400> 60

```

Met Tyr Leu Phe Ala Phe Leu Cys Cys Val Leu Leu Asn Ile Val
 1          5          10          15
Ile Leu Leu Phe Leu Val Lys Phe His Glu Leu Leu Cys Thr Leu
          20          25          30
Val Ser His Thr Gln His His Thr Asn Asn Glu Ile Ile Ser Asn
          35          40          45
Phe Lys Leu Leu Ile Asp Trp Leu Ser Cys Ala Ile Asn Asp Asn
          50          55          60
Ala Ile Cys Glu Pro Ala Arg His Arg Gln Asn Cys Leu Glu Lys
          65          70          75
Ser Leu Ile Ser Thr Ser Cys Ile Asn Ser Asn Ser Pro
          80          85

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<210> 61

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1391514CD1

<400> 61

```

Met His Gln Gly Ser Val Phe Phe Tyr Phe Tyr Phe Leu Ser Leu
 1          5          10          15
Ala Leu Ser Pro Arg Leu Glu Cys Lys Gly Ala Ile Ser Ala His
          20          25          30
Cys Asn Leu Tyr Leu Ile Gly Leu Ser Ile Ser Leu His Ile Ala
          35          40          45

```

Arg Ser Pro Cys Leu Phe Pro Asp Leu Leu Ala Trp Asp Phe Val
 50 55 60
 Pro Gly Gly Ile Pro Leu Val Cys Pro Pro Ser Gly Leu Val Ser
 65 70 75
 His Arg Leu Cys

<210> 62
 <211> 76
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2102578CD1

<400> 62
 Met Asp Ser Arg Gly Ser Pro Leu Gly Gly Leu Gly Leu Pro Cys
 1 5 10 15
 Gly Ala Ser Leu Arg Arg Thr Pro Ala Ser Pro Ser Asp Ala Ile
 20 25 30
 Gln Arg Ala Leu Pro Gly Arg Lys Leu Pro Arg Trp Asn Ala Ser
 35 40 45
 Pro Glu Gln Arg Val Ala Val Pro Cys Gly Gly Leu Thr Gln Trp
 50 55 60
 Leu Asn Thr Gly Lys Glu Leu Ala Leu Gly Val Arg Thr Ser Glu
 65 70 75
 Thr

<210> 63
 <211> 116
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3213122CD1

<400> 63
 Met Gln Pro Cys Leu Ala Leu Cys Ala Pro Ala Cys Ser Leu Gln
 1 5 10 15
 Gln Pro Arg Glu Arg Gln Arg Gln Tyr Leu Leu Gly Lys Ser Trp
 20 25 30
 Lys Ala Gly Trp Ala Tyr Trp Leu Val Pro Gly Gly Arg Leu Arg
 35 40 45
 Pro Trp Asp Arg Arg Val Pro Thr Leu Pro Ser Gln Leu Leu Ala
 50 55 60
 Pro Gly Val Arg Pro Leu Ser Ser Lys Ser Gly Pro Arg Pro Phe
 65 70 75
 Pro Leu Trp Ser Ser Leu Phe His Leu Gln Gly Ala Gln Cys Pro
 80 85 90
 Glu Leu Gly Val Ser Glu Val Ala Arg Gly Ala Ser Gly Ala Gly
 95 100 105
 Cys Arg Ser Cys His Ser Pro Ser Thr Val Leu
 110 115

<210> 64
 <211> 558
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4326307CD1

<400> 64

Met	Thr	Val	Phe	Pro	Leu	Ser	Ser	Phe	Phe	Ile	Leu	Ile	Phe	Tyr
1				5					10					15
Leu	Ser	Leu	Pro	Asn	Ser	Phe	Pro	Asp	Ile	Thr	Glu	Asn	Met	Lys
				20					25					30
Glu	Leu	Lys	Glu	Ala	Arg	Pro	Arg	Lys	Asp	Asn	Arg	Arg	Pro	Asp
				35					40					45
Leu	Glu	Ile	Tyr	Lys	Pro	Gly	Leu	Ser	Arg	Leu	Arg	Asn	Lys	Pro
				50					55					60
Lys	Ile	Lys	Glu	Pro	Pro	Gly	Ser	Glu	Glu	Phe	Lys	Asp	Glu	Ile
				65					70					75
Val	Asn	Asp	Arg	Asp	Cys	Ser	Ala	Val	Glu	Asn	Gly	Thr	Gln	Pro
				80					85					90
Val	Lys	Asp	Val	Cys	Lys	Glu	Leu	Asn	Asn	Gln	Glu	Gln	Asn	Gly
				95					100					105
Pro	Ile	Asp	Pro	Glu	Asn	Asn	Arg	Gly	Gln	Glu	Ser	Phe	Pro	Arg
				110					115					120
Thr	Ala	Gly	Gln	Glu	Asp	Arg	Ser	Leu	Lys	Ile	Ile	Lys	Arg	Thr
				125					130					135
Lys	Lys	Pro	Asp	Leu	Gln	Ile	Tyr	Gln	Pro	Gly	Arg	Arg	Leu	Gln
				140					145					150
Thr	Val	Ser	Lys	Glu	Ser	Ala	Ser	Arg	Val	Glu	Glu	Glu	Glu	Val
				155					160					165
Leu	Asn	Gln	Val	Glu	Gln	Leu	Arg	Val	Glu	Glu	Asp	Glu	Cys	Arg
				170					175					180
Gly	Asn	Val	Ala	Lys	Glu	Glu	Val	Ala	Asn	Lys	Pro	Asp	Arg	Ala
				185					190					195
Glu	Ile	Glu	Lys	Ser	Pro	Gly	Gly	Gly	Arg	Val	Gly	Ala	Ala	Lys
				200					205					210
Gly	Glu	Lys	Gly	Lys	Arg	Met	Gly	Lys	Gly	Glu	Gly	Val	Arg	Glu
				215					220					225
Thr	His	Asp	Asp	Pro	Ala	Arg	Gly	Arg	Pro	Gly	Ser	Ala	Lys	Arg
				230					235					240
Tyr	Ser	Arg	Ser	Asp	Lys	Arg	Arg	Asn	Arg	Tyr	Arg	Thr	Arg	Ser
				245					250					255
Thr	Ser	Ser	Ala	Gly	Ser	Asn	Asn	Ser	Ala	Glu	Gly	Ala	Gly	Leu
				260					265					270
Thr	Asp	Asn	Gly	Cys	Arg	Arg	Arg	Arg	Gln	Asp	Arg	Thr	Lys	Glu
				275					280					285
Arg	Pro	Pro	Leu	Lys	Lys	Gln	Val	Ser	Val	Ser	Ser	Thr	Asp	Ser
				290					295					300
Leu	Asp	Glu	Asp	Arg	Ile	Asp	Glu	Pro	Asp	Gly	Leu	Gly	Pro	Arg
				305					310					315
Arg	Ser	Ser	Glu	Arg	Lys	Arg	His	Leu	Glu	Arg	Asn	Trp	Ser	Gly
				320					325					330
Arg	Gly	Glu	Gly	Glu	Gln	Lys	Thr	Ser	Ala	Lys	Glu	Tyr	Arg	Gly
				335					340					345
Thr	Leu	Arg	Val	Thr	Phe	Asp	Ala	Glu	Ala	Met	Asn	Lys	Glu	Ser
				350					355					360
Pro	Met	Val	Arg	Ser	Ala	Arg	Asp	Asp	Met	Asp	Arg	Gly	Lys	Pro
				365					370					375
Asp	Lys	Gly	Leu	Ser	Ser	Gly	Gly	Lys	Gly	Ser	Glu	Lys	Gln	Glu
				380					385					390
Ser	Lys	Asn	Pro	Lys	Gln	Glu	Leu	Arg	Gly	Arg	Gly	Arg	Gly	Ile
				395					400					405
Leu	Ile	Leu	Pro	Ala	His	Thr	Thr	Leu	Ser	Val	Asn	Ser	Ala	Gly
				410					415					420
Ser	Pro	Glu	Ser	Ala	Pro	Leu	Gly	Pro	Arg	Leu	Leu	Phe	Gly	Ser
				425					430					435
Gly	Ser	Lys	Gly	Ser	Arg	Ser	Trp	Gly	Arg	Gly	Gly	Thr	Thr	Arg
				440					445					450
Arg	Leu	Trp	Asp	Pro	Asn	Asn	Pro	Asp	Gln	Lys	Pro	Ala	Leu	Lys
				455					460					465
Thr	Gln	Thr	Pro	Gln	Leu	His	Phe	Leu	Asp	Thr	Asp	Asp	Glu	Val
				470					475					480
Ser	Pro	Thr	Ser	Trp	Gly	Asp	Ser	Arg	Gln	Ala	Gln	Ala	Ser	Tyr
				485					490					495
Tyr	Lys	Phe	Gln	Asn	Ser	Asp	Asn	Pro	Tyr	Tyr	Tyr	Pro	Arg	Thr

Pro Gly Pro Ala	500	505	510
Ser Gln Tyr Pro Trp	515	His Val Trp Glu Gln	Phe
Leu Leu Glu Arg	530	Val Asn Phe Lys Ser	Pro
Ala Thr Ser Gly	545	Ile Lys Gly Gly Gln	Ala
Ala Gln Arg			555

<210> 65
 <211> 155
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 6037749CD1

Met Ala Val Phe His	Asp Met Leu Leu	Gln Pro Leu Gly Met	Phe
1	5	10	15
Leu Cys Leu Ser Leu	Gln Leu Ser Ser	Ala Thr Phe Ile Arg	Tyr
	20	25	30
Ser Ser Thr Cys Phe	Thr Phe Asp Glu Tyr	Tyr Thr Ile Thr	Leu
	35	40	45
Asp Ile Lys Ala Ser	Ser His Ile Tyr Glu	Ser Asn Ala Val	Tyr
	50	55	60
Ser Val Phe Val Pro	Val Asn Asp Ser Val	Tyr Ala Val Val	Met
	65	70	75
Lys Thr Leu Asp Glu	Asn Ser Asp Ser	Ala Gly Leu Trp Gln	Arg
	80	85	90
Ala Asp Lys Asn Cys	Tyr Ser Asn Ser	Thr Tyr Tyr Val	Lys Asp
	95	100	105
Gln Tyr Met Thr Val	Leu Glu Ala Gln	Trp Gln Ala Pro	Glu Pro
	110	115	120
Glu Asn Ile Thr Glu	Val Glu Ile Gln	Ala Phe Thr Val	Gln Ile
	125	130	135
Arg Ala Leu Pro Ile	Leu Pro Thr Leu	Lys Leu Arg Glu	Lys Arg
	140	145	150
Tyr Lys Glu Leu	Leu		
	155		

<210> 66
 <211> 77
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 6285519CD1

Met Gly Gln Lys Gln	Ile Thr Met Val	Glu Cys His Gln	Leu Arg
1	5	10	15
Leu Phe Ser Leu Leu	Leu Trp Ile Phe	Ser Cys Phe Arg	Pro Ser
	20	25	30
Gly Cys Ile Arg Ala	Gly Tyr Arg Gly	Tyr Asp Gly Leu	Ala Trp
	35	40	45
Ala Gln Thr Val Pro	Ala Pro Gln Thr	Pro Ser Arg Gly	Leu Glu
	50	55	60
Val Lys Trp Gln Gly	Ala Glu Leu Ser	Cys Val Thr Cys	Gln Gly
	65	70	75
Leu His			

<210> 67

<211> 240
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 70336045CD1

<400> 67
 Met Ala Thr Asp Glu Leu Ala Thr Lys Leu Ser Arg Arg Leu Gln
 1 5 10 15
 Met Glu Gly Glu Gly Gly Gly Glu Thr Pro Glu Gln Pro Gly Leu
 20 25 30
 Asn Gly Ala Ala Ala Ala Ala Ala Gly Ala Pro Asp Glu Ala Ala
 35 40 45
 Glu Ala Leu Gly Ser Ala Asp Cys Glu Leu Ser Ala Lys Leu Leu
 50 55 60
 Arg Arg Ala Asp Leu Asn Gln Gly Ile Gly Glu Pro Gln Ser Pro
 65 70 75
 Ser Arg Arg Val Phe Asn Pro Tyr Thr Glu Phe Lys Glu Phe Ser
 80 85 90
 Arg Lys Gln Ile Lys Asp Met Glu Lys Met Phe Lys Gln Tyr Asp
 95 100 105
 Ala Gly Arg Asp Gly Phe Ile Asp Leu Met Glu Leu Lys Leu Met
 110 115 120
 Met Glu Lys Leu Gly Ala Pro Gln Thr His Leu Gly Leu Lys Asn
 125 130 135
 Met Ile Lys Glu Val Asp Glu Asp Phe Asp Ser Lys Leu Ser Phe
 140 145 150
 Arg Glu Phe Leu Leu Ile Phe Arg Lys Ala Ala Ala Gly Glu Leu
 155 160 165
 Gln Glu Asp Ser Gly Leu Cys Val Leu Ala Arg Leu Ser Glu Ile
 170 175 180
 Asp Val Ser Ser Glu Gly Val Lys Gly Ala Lys Ser Phe Phe Glu
 185 190 195
 Ala Lys Val Gln Ala Ile Asn Val Ser Ser Arg Phe Glu Glu Glu
 200 205 210
 Ile Lys Ala Glu Gln Glu Glu Arg Lys Lys Gln Ala Glu Glu Met
 215 220 225
 Lys Gln Arg Lys Ala Ala Phe Lys Glu Leu Gln Ser Thr Phe Lys
 230 235 240

<210> 68
 <211> 101
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7153577CD1

<400> 68
 Met Ala Phe Arg Pro Cys Pro Ser Leu Ser Ala His Thr Val Ser
 1 5 10 15
 Cys Gly Ser Tyr Ala Pro Phe Cys Ser Ser Ser Leu Ser Pro Pro
 20 25 30
 Ile Ser Ala Arg Gln Ser Leu Arg Pro Val Lys Ile Ile Thr Gln
 35 40 45
 Phe Ser Trp Lys Leu Ile Ser Pro Cys Asp Pro Ala Gln Ile Leu
 50 55 60
 Pro Thr Val Phe Leu Asn Gly Leu Gly Glu Ile Gln Ser Gly Met
 65 70 75
 Ala Ser Leu Ala Gln Ala Gly Glu Trp Glu Arg Leu Gln Gly Ser
 80 85 90
 Ser Cys Tyr Tyr Phe Tyr Phe Tyr Ile Leu Tyr
 95 100

<210> 69
 <211> 129
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7500299CD1

<400> 69
 Met Arg Pro Gly Ala Pro Gly Pro Leu Trp Pro Leu Pro Trp Gly
 1 5 10 15
 Ala Leu Ala Trp Ala Val Gly Phe Val Ser Ser Met Gly Ser Gly
 20 25 30
 Asn Pro Ala Pro Glu Ser Cys Glu His Val Val Cys Pro Arg Pro
 35 40 45
 Gln Ser Cys Val Val Asp Gln Thr Gly Ser Ala His Cys Val Val
 50 55 60
 Cys Arg Ala Ala Pro Cys Pro Val Pro Ser Cys Pro Gly Gln Glu
 65 70 75
 Leu Cys Gly Asn Asn Asn Val Thr Tyr Ile Ser Ser Cys His Met
 80 85 90
 Arg Gln Ala Thr Cys Phe Leu Gly Arg Ser Ile Gly Val Arg His
 95 100 105
 Ala Gly Ser Cys Ala Gly Thr Pro Asp Glu Pro Pro Gly Gly Glu
 110 115 120
 Ser Ala Glu Glu Glu Glu Asn Phe Val
 125

<210> 70
 <211> 500
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7480218CD1

<400> 70
 Met Lys Cys Thr Ala Arg Glu Trp Leu Arg Val Thr Thr Val Leu
 1 5 10 15
 Phe Met Ala Arg Ala Ile Pro Ala Met Val Val Pro Asn Ala Thr
 20 25 30
 Leu Leu Glu Lys Leu Leu Glu Lys Tyr Met Asp Glu Asp Gly Glu
 35 40 45
 Trp Trp Ile Ala Lys Gln Arg Gly Lys Arg Ala Ile Thr Asp Asn
 50 55 60
 Asp Met Gln Ser Ile Leu Asp Leu His Asn Lys Leu Arg Ser Gln
 65 70 75
 Val Tyr Pro Thr Ala Ser Asn Met Glu Tyr Met Thr Trp Asp Val
 80 85 90
 Glu Leu Glu Arg Ser Ala Glu Ser Trp Ala Glu Ser Cys Leu Trp
 95 100 105
 Glu His Gly Pro Ala Ser Leu Leu Pro Ser Ile Gly Gln Asn Leu
 110 115 120
 Gly Ala His Trp Gly Arg Tyr Arg Pro Pro Thr Phe His Val Gln
 125 130 135
 Ser Trp Tyr Asp Glu Val Lys Asp Phe Ser Tyr Pro Tyr Glu His
 140 145 150
 Glu Cys Asn Pro Tyr Cys Pro Phe Arg Cys Ser Gly Pro Val Cys
 155 160 165
 Thr His Tyr Thr Gln Val Val Trp Ala Thr Ser Asn Arg Ile Gly
 170 175 180
 Cys Ala Ile Asn Leu Cys His Asn Met Asn Ile Trp Gly Gln Ile
 185 190 195
 Trp Pro Lys Ala Val Tyr Leu Val Cys Asn Tyr Ser Pro Lys Gly

Asn Trp Trp Gly	200	His Ala Pro Tyr Lys	205	His Gly Arg Pro Cys	210
Ala Cys Pro Pro	215	Ser Phe Gly Gly Gly	220	Cys Arg Glu Asn Leu	225
Tyr Lys Glu Gly	230	Ser Asp Arg Tyr Tyr	235	Pro Pro Arg Glu Glu	240
Thr Asn Glu Ile	245	Glu Arg Gln Gln Ser	250	Gln Val His Asp Thr	255
Val Arg Thr Arg	260	Ser Asp Asp Ser Ser	265	Arg Asn Glu Val Ile	270
Ser Gln Gln Met	275	Ser Gln Ile Val Ser	280	Cys Glu Val Arg Leu	285
Asp Gln Cys Lys	290	Gly Thr Thr Cys Asn	295	Arg Tyr Glu Cys Pro	300
Gly Cys Leu Asp	305	Ser Lys Ala Lys Val	310	Ile Gly Ser Val His	315
Glu Met Gln Ser	320	Ser Ile Cys Arg Ala	325	Ala Ile His Tyr Gly	330
Ile Asp Asn Asp	335	Gly Gly Trp Val Asp	340	Ile Thr Arg Gln Gly	345
Lys His Tyr Phe	350	Ile Lys Ser Asn Arg	355	Asn Gly Ile Gln Thr	360
Gly Lys Tyr Gln	365	Ser Ala Asn Ser Phe	370	Thr Val Ser Lys Val	375
Val Gln Ala Val	380	Thr Cys Glu Thr Thr	385	Val Glu Gln Leu Cys	390
Phe His Lys Pro	395	Ala Ser His Cys Pro	400	Arg Val Tyr Cys Pro	405
Asn Cys Met Gln	410	Ala Asn Pro His Tyr	415	Ala Arg Val Ile Gly	420
Arg Val Tyr Ser	425	Asp Leu Ser Ser Ile	430	Cys Arg Ala Ala Val	435
Ala Gly Val Val	440	Arg Asn His Gly Gly	445	Tyr Val Asp Val Met	450
Val Asp Lys Arg	455	Lys Thr Tyr Ile Ala	460	Ser Phe Gln Asn Gly	465
Phe Ser Glu Ser	470	Gln Asn Pro Pro	475	Gly Gly Lys Ala Phe	480
Val Phe Ala Val	485	Val	490		495
	500				

<210> 71

<211> 402

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501159CD1

<400> 71

Met Ala Val Ser Gly	Phe Thr Leu Gly Thr Cys Ile Leu Leu Leu
1	5 10 15
His Ile Ser Tyr Val	Ala Asn Tyr Pro Asn Gly Lys Val Thr Gln
20	25 30
Ser Cys His Gly Met	Ile Pro Glu His Gly His Ser Pro Gln Ser
35	40 45
Val Pro Val His Asp	Ile Tyr Val Ser Gln Met Thr Phe Arg Pro
50	55 60
Gly Asp Gln Ile Glu	Val Thr Leu Ser Gly His Pro Phe Lys Gly
65	70 75
Phe Leu Leu Glu Ala	Arg Asn Ala Glu Asp Leu Asn Gly Pro Pro
80	85 90
Ile Gly Ser Phe Thr	Leu Ile Asp Ser Glu Val Ser Gln Leu Leu
95	100 105
Thr Cys Glu Asp Ile	Gln Gly Ser Ala Val Ser His Arg Ser Ala

	110		115		120
Ser Lys Lys Thr	Glu Ile Lys Val Tyr	Trp Asn Ala Pro Ser	Ser		
	125		130		135
Ala Pro Asn His	Thr Gln Phe Leu Val	Thr Val Val Glu Lys	Tyr		
	140		145		150
Lys Ile Tyr Trp	Val Lys Ile Pro Gly	Pro Ile Ile Ser Gln	Pro		
	155		160		165
Asn Ala Phe Pro	Phe Thr Thr Pro Lys	Ala Thr Val Val Pro	Leu		
	170		175		180
Pro Thr Leu Pro	Pro Val Ser His Leu	Thr Lys Pro Phe Ser	Ala		
	185		190		195
Ser Asp Cys Gly	Asn Lys Lys Phe Cys	Ile Arg Ser Pro Leu	Asn		
	200		205		210
Cys Asp Pro Glu	Lys Glu Ala Ser Cys	Val Phe Leu Ser Phe	Thr		
	215		220		225
Arg Asp Asp Gln	Ser Val Met Val Glu	Met Ser Gly Pro Ser	Lys		
	230		235		240
Gly Tyr Leu Ser	Phe Ala Leu Ser His	Asp Gln Trp Met Gly	Asp		
	245		250		255
Asp Asp Ala Tyr	Leu Cys Ile His Glu	Asp Gln Thr Val Tyr	Ile		
	260		265		270
Gln Pro Ser His	Leu Thr Gly Arg Ser	His Pro Val Met Asp	Ser		
	275		280		285
Arg Val Gly Thr	Leu Glu Asp Met Ala	Trp Arg Leu Ala Asp	Gly		
	290		295		300
Val Met Gln Cys	Ser Phe Arg Arg Asn	Ile Thr Leu Pro Gly	Val		
	305		310		315
Lys Asn Arg Phe	Asp Leu Asn Thr Ser	Tyr Tyr Ile Phe Leu	Ala		
	320		325		330
Asp Gly Ala Ala	Asn Asp Gly Arg Ile	Tyr Lys His Ser Gln	Gln		
	335		340		345
Pro Leu Ile Thr	Tyr Glu Lys Tyr Asp	Val Thr Asp Ser Pro	Lys		
	350		355		360
Asn Ile Gly Gly	Ser His Ser Val Leu	Leu Leu Lys Val His	Gly		
	365		370		375
Ala Ser Asp Ala	His Val His His Asn	Cys Pro His Leu His	Cys		
	380		385		390
Phe Cys Tyr Ala	Val Tyr Ile Gln Gly	Arg Leu Glu			
	395		400		

<210> 72

<211> 363

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501932CD1

<400> 72

Met Ala Gln Gly	Pro Gly His Pro Glu	Ala Pro Pro Val Pro	Ala
1	5	10	15
Gln Asn Ser Ala	Cys Ile Leu Ala Ser	Trp Val Ser Gly Lys	Phe
	20	25	30
Ser Ser Leu Leu	Gln Ala Leu Glu Ile	Gln His Thr Thr Ala	Leu
	35	40	45
Arg Ser Ile Glu	Val Ala Lys Thr Gln	Ala Leu Ala Gln Ala	Arg
	50	55	60
Asp Glu Glu Gln	Arg Leu Arg Val His	Leu Glu Ala Val Ala	Arg
	65	70	75
His Gly Cys Arg	Ile Arg Glu Leu Leu	Glu Gln Val Asp Glu	Gln
	80	85	90
Thr Phe Leu Gln	Glu Ser Gln Leu Leu	Gln Pro Pro Gly Pro	Leu
	95	100	105
Gly Pro Leu Thr	Pro Leu Gln Trp Asp	Glu Asp Gln Gln Leu	Gly
	110	115	120
Asp Leu Lys Gln	Leu Leu Ser Arg Leu	Cys Gly Leu Leu Leu	Glu

	125		130		135
Glu Gly Ser His	Pro Gly Ala Pro Ala	Lys Pro Val Asp Leu	Ala		
	140		145		150
Pro Val Glu Ala	Pro Gly Pro Leu Ala	Pro Val Pro Ser Thr	Val		
	155		160		165
Cys Pro Leu Arg	Arg Lys Leu Trp Gln	Asn Tyr Arg Asn Leu	Thr		
	170		175		180
Phe Asp Pro Val	Ser Ala Asn Arg His	Phe Tyr Leu Ser Arg	Gln		
	185		190		195
Asp Gln Gln Val	Lys His Cys Arg Gln	Ser Arg Gly Pro Gly	Gly		
	200		205		210
Pro Gly Ser Phe	Glu Leu Trp Gln Val	Gln Cys Ala Gln Ser	Phe		
	215		220		225
Gln Ala Gly His	His Tyr Trp Glu Val	Arg Ala Ser Asp His	Ser		
	230		235		240
Val Thr Leu Gly	Val Ser Tyr Pro Gln	Leu Pro Arg Cys Arg	Leu		
	245		250		255
Gly Pro His Thr	Asp Asn Ile Gly Arg	Gly Pro Cys Ser Trp	Gly		
	260		265		270
Leu Cys Val Gln	Glu Asp Ser Leu Gln	Ala Trp His Asn Gly	Glu		
	275		280		285
Ala Gln Arg Leu	Pro Gly Val Ser Gly	Arg Leu Leu Gly Met	Asp		
	290		295		300
Leu Asp Leu Ala	Ser Gly Cys Leu Thr	Phe Tyr Ser Leu Glu	Pro		
	305		310		315
Gln Thr Gln Pro	Leu Tyr Thr Phe His	Ala Leu Phe Asn Gln	Pro		
	320		325		330
Leu Thr Pro Val	Phe Trp Leu Leu Glu	Gly Arg Thr Leu Thr	Leu		
	335		340		345
Cys His Gln Pro	Gly Ala Val Phe Pro	Pro Gly Pro Gln Glu	Glu		
	350		355		360
Val Leu Ser					

<210> 73

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501111CD1

<400> 73

Met Lys Val Gly Val	Leu Trp Leu Ile Ser	Phe Phe Thr Phe Thr	
1	5	10	15
Asp Gly His Gly Gly	Phe Leu Gly Lys Asn	Asp Gly Ile Lys Thr	
	20	25	30
Lys Lys Glu Leu Ile	Val Asn Lys Lys Lys	His Leu Gly Pro Val	
	35	40	45
Glu Glu Tyr Gln Leu	Leu Leu Gln Val Thr	Tyr Arg Asp Ser Lys	
	50	55	60
Glu Lys Arg Asp Leu	Arg Asn Phe Leu Lys	Leu Leu Lys Pro Pro	
	65	70	75
Leu Leu Trp Ser His	Gly Leu Ile Arg Ile	Ile Arg Ala Lys Ala	
	80	85	90
Thr Thr Asp Cys Asn	Ser Leu Asn Gly Val	Leu Gln Cys Thr Cys	
	95	100	105
Glu Asp Ser Tyr Thr	Trp Phe Pro Pro Ser	Cys Leu Asp Pro Gln	
	110	115	120
Asn Cys Tyr Leu His	Thr Ala Gly Ala Leu	Pro Ser Cys Glu Cys	
	125	130	135
His Leu Asn Asn Leu	Ser Gln Ser Val Asn	Phe Cys Glu Arg Thr	
	140	145	150
Lys Ile Trp Gly Thr	Phe Lys Ile Asn Glu	Arg Phe Thr Asn Asp	
	155	160	165
Leu Leu Asn Ser Ser	Ser Ala Ile Tyr Ser	Lys Tyr Ala Asn Gly	

Ile	Glu	Ile	Gln	Leu	Lys	Lys	Ala	Tyr	Glu	Arg	Ile	Gln	Gly	Phe	170	175	180
				185					190								195
Glu	Ser	Val	Gln	Val	Thr	Gln	Phe	Arg	Asn	Ala	Val	Leu	Pro	Leu			
				200					205								210
Ala	Glu	Thr	Gln	Ser	Trp	Ser	His	Pro	Val	Leu							
				215					220								

<210> 74

<211> 267

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501113CD1

<400> 74

Met	Lys	Val	Gly	Val	Leu	Trp	Leu	Ile	Ser	Phe	Phe	Thr	Phe	Thr			
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Asp	Gly	His	Gly	Gly	Phe	Leu	Gly	Lys	Asn	Asp	Gly	Ile	Lys	Thr			
				20					25					30			
Lys	Lys	Glu	Leu	Ile	Val	Asn	Lys	Lys	Lys	His	Leu	Gly	Pro	Val			
				35					40					45			
Glu	Glu	Tyr	Gln	Leu	Leu	Gln	Val	Thr	Tyr	Arg	Asp	Ser	Lys				
				50					55					60			
Glu	Lys	Arg	Asp	Leu	Arg	Asn	Phe	Leu	Lys	Leu	Leu	Lys	Pro	Pro			
				65					70					75			
Leu	Leu	Trp	Ser	His	Gly	Leu	Ile	Arg	Ile	Ile	Arg	Ala	Lys	Ala			
				80					85					90			
Thr	Thr	Asp	Cys	Asn	Ser	Leu	Asn	Gly	Val	Leu	Gln	Cys	Thr	Cys			
				95					100					105			
Glu	Asp	Ser	Tyr	Thr	Trp	Phe	Pro	Pro	Ser	Cys	Leu	Asp	Pro	Gln			
				110					115					120			
Asn	Cys	Tyr	Leu	His	Thr	Ala	Gly	Ala	Leu	Pro	Ser	Cys	Glu	Cys			
				125					130					135			
His	Leu	Asn	Asn	Leu	Ser	Gln	Ser	Val	Asn	Phe	Cys	Glu	Arg	Thr			
				140					145					150			
Lys	Ile	Trp	Gly	Thr	Phe	Lys	Ile	Asn	Glu	Arg	Phe	Thr	Asn	Asp			
				155					160					165			
Leu	Leu	Asn	Ser	Ser	Ser	Ala	Ile	Tyr	Ser	Lys	Tyr	Ala	Asn	Gly			
				170					175					180			
Ile	Glu	Ile	Gln	Leu	Lys	Lys	Ala	Tyr	Glu	Arg	Ile	Gln	Gly	Phe			
				185					190					195			
Glu	Ser	Val	Gln	Val	Thr	Gln	Phe	Arg	Asn	Gly	Ser	Ile	Val	Ala			
				200					205					210			
Gly	Tyr	Glu	Val	Val	Gly	Ser	Ser	Ser	Ala	Ser	Glu	Leu	Leu	Ser			
				215					220					225			
Ala	Ile	Glu	His	Val	Ala	Glu	Lys	Ala	Lys	Thr	Ala	Leu	His	Lys			
				230					235					240			
Leu	Phe	Pro	Leu	Glu	Asp	Gly	Ser	Phe	Arg	Val	Phe	Gly	Lys	Gly			
				245					250					255			
Ile	Phe	Tyr	Leu	Met	Leu	Trp	Asn	Thr	Leu	Gly	Gln						
				260					265								

<210> 75

<211> 236

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501118CD1

<400> 75

Met	Lys	Val	Gly	Val	Leu	Trp	Leu	Ile	Ser	Phe	Phe	Thr	Phe	Thr			
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Asp	Gly	His	Gly	Gly	Phe	Leu	Gly	Lys	Asn	Asp	Gly	Ile	Lys	Thr	
				20					25					30	
Lys	Lys	Glu	Leu	Ile	Val	Asn	Lys	Lys	Lys	His	Leu	Gly	Pro	Val	
				35					40					45	
Glu	Glu	Tyr	Gln	Leu	Leu	Leu	Gln	Val	Thr	Tyr	Arg	Asp	Ser	Lys	
				50					55					60	
Glu	Lys	Arg	Asp	Leu	Arg	Asn	Phe	Leu	Lys	Leu	Leu	Lys	Pro	Pro	
				65					70					75	
Leu	Leu	Trp	Ser	His	Gly	Leu	Ile	Arg	Ile	Ile	Arg	Ala	Lys	Ala	
				80					85					90	
Thr	Thr	Asp	Cys	Asn	Ser	Leu	Asn	Gly	Val	Leu	Gln	Cys	Thr	Cys	
				95					100					105	
Glu	Asp	Ser	Tyr	Thr	Trp	Phe	Pro	Pro	Ser	Cys	Leu	Asp	Pro	Gln	
				110					115					120	
Asn	Cys	Tyr	Leu	His	Thr	Ala	Gly	Ala	Leu	Pro	Ser	Cys	Glu	Cys	
				125					130					135	
His	Leu	Asn	Asn	Leu	Ser	Gln	Ser	Val	Asn	Phe	Cys	Glu	Arg	Thr	
				140					145					150	
Lys	Ile	Trp	Gly	Thr	Phe	Lys	Ile	Asn	Glu	Arg	Phe	Thr	Asn	Asp	
				155					160					165	
Leu	Leu	Asn	Ser	Ser	Ser	Ala	Ile	Tyr	Ser	Lys	Tyr	Ala	Asn	Gly	
				170					175					180	
Ile	Glu	Ile	Gln	Pro	Ser	Val	Met	Thr	Leu	Ser	Leu	Asp	Leu	Gly	
				185					190					195	
Pro	Arg	Met	Met	Asn	Ile	Pro	Cys	Pro	Ala	Ala	Val	Ala	Thr	Gly	
				200					205					210	
Glu	Thr	Ser	Gln	Pro	Ser	Val	Ser	Pro	Leu	Gly	Gly	Arg	Ser	Ser	
				215					220					225	
Gly	Arg	Leu	Val	Cys	Ser	Leu	Cys	Leu	Lys	Asn					
				230					235						

<210> 76

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501128CD1

<400> 76

Met	Lys	Val	Gly	Val	Leu	Trp	Leu	Ile	Ser	Phe	Phe	Thr	Phe	Thr	
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Asp	Gly	His	Gly	Gly	Phe	Leu	Gly	Lys	Asn	Asp	Gly	Ile	Lys	Thr	
				20					25					30	
Lys	Lys	Glu	Leu	Ile	Val	Asn	Lys	Lys	Lys	His	Leu	Gly	Pro	Phe	
				35					40					45	
Glu	Glu	Tyr	Gln	Leu	Leu	Leu	Gln	Val	Thr	Tyr	Arg	Asp	Ser	Lys	
				50					55					60	
Glu	Lys	Arg	Asp	Leu	Arg	Asn	Phe	Leu	Lys	Leu	Leu	Lys	Pro	Pro	
				65					70					75	
Leu	Leu	Trp	Ser	His	Gly	Leu	Ile	Arg	Ile	Ile	Arg	Ala	Lys	Ala	
				80					85					90	
Thr	Thr	Asp	Cys	Asn	Ser	Leu	Asn	Gly	Val	Leu	Gln	Cys	Thr	Cys	
				95					100					105	
Glu	Asp	Ser	Tyr	Thr	Trp	Phe	Pro	Pro	Ser	Cys	Leu	Asp	Pro	Gln	
				110					115					120	
Asn	Cys	Tyr	Leu	His	Thr	Ala	Gly	Ala	Leu	Pro	Ser	Cys	Glu	Cys	
				125					130					135	
His	Leu	Asn	Asn	Leu	Ser	Gln	Ser	Val	Asn	Phe	Cys	Glu	Arg	Thr	
				140					145					150	
Lys	Ile	Trp	Gly	Thr	Phe	Lys	Ile	Asn	Glu	Arg	Phe	Thr	Asn	Asp	
				155					160					165	
Leu	Leu	Asn	Ser	Ser	Ser	Ala	Ile	Tyr	Ser	Lys	Tyr	Ala	Asn	Gly	
				170					175					180	
Ile	Glu	Ile	Gln	Leu	Lys	Lys	Ala	Tyr	Glu	Arg	Ile	Gln	Gly	Phe	
				185					190					195	

Glu Ser Val Gln Val Thr Gln Phe Arg Asn Ala Val Leu Pro Leu
 200 205 210
 Ala Glu Thr Gln Ser Trp Ser His Pro Val Leu
 215 220

<210> 77
 <211> 410
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7501920CD1

<400> 77
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 Asp Gly His Gly Gly Phe Leu Gly Gly Pro Val Glu Glu Tyr Gln
 20 25 30
 Leu Leu Leu Gln Val Thr Tyr Arg Asp Ser Lys Glu Lys Arg Asp
 35 40 45
 Leu Arg Asn Phe Leu Lys Leu Leu Lys Pro Pro Leu Leu Trp Ser
 50 55 60
 His Gly Leu Ile Arg Ile Ile Arg Ala Lys Ala Thr Thr Asp Cys
 65 70 75
 Asn Ser Leu Asn Gly Val Leu Gln Cys Thr Cys Glu Asp Ser Tyr
 80 85 90
 Thr Trp Phe Pro Pro Ser Cys Leu Asp Pro Gln Asn Cys Tyr Leu
 95 100 105
 His Thr Ala Gly Ala Leu Pro Ser Cys Glu Cys His Leu Asn Asn
 110 115 120
 Leu Ser Gln Ser Val Asn Phe Cys Glu Arg Thr Lys Ile Trp Gly
 125 130 135
 Thr Phe Lys Ile Asn Glu Arg Phe Thr Asn Asp Leu Leu Asn Ser
 140 145 150
 Ser Ser Ala Ile Tyr Ser Lys Tyr Ala Asn Gly Ile Glu Ile Gln
 155 160 165
 Leu Lys Lys Ala Tyr Glu Arg Ile Gln Gly Phe Glu Ser Val Gln
 170 175 180
 Val Thr Gln Phe Arg Asn Gly Ser Ile Val Ala Gly Tyr Glu Val
 185 190 195
 Val Gly Ser Ser Ser Ala Ser Glu Leu Leu Ser Ala Ile Glu His
 200 205 210
 Val Ala Glu Lys Ala Lys Thr Ala Leu His Lys Leu Phe Pro Leu
 215 220 225
 Glu Asp Gly Ser Phe Arg Val Phe Gly Lys Ala Gln Cys Asn Asp
 230 235 240
 Ile Val Phe Gly Phe Gly Ser Lys Asp Asp Glu Tyr Thr Leu Pro
 245 250 255
 Cys Ser Ser Gly Tyr Arg Gly Asn Ile Thr Ala Lys Cys Glu Ser
 260 265 270
 Ser Gly Trp Gln Val Ile Arg Glu Thr Cys Val Leu Ser Leu Leu
 275 280 285
 Glu Glu Leu Asn Lys Asn Phe Ser Met Ile Val Gly Asn Ala Thr
 290 295 300
 Glu Ala Ala Val Ser Ser Phe Val Gln Asn Leu Ser Val Ile Ile
 305 310 315
 Arg Gln Asn Pro Ser Thr Thr Val Gly Asn Leu Ala Ser Val Val
 320 325 330
 Ser Ile Leu Ser Asn Ile Ser Ser Leu Ser Leu Ala Ser His Phe
 335 340 345
 Arg Val Ser Asn Ser Thr Met Glu Asp Val Ile Ser Ile Ala Asp
 350 355 360
 Asn Ile Leu Asn Ser Ala Ser Ala Asn Gln Leu Asp Ser Leu Thr
 365 370 375
 Ala Gly Arg Lys Val Cys Gln Leu Thr Val Thr Arg Asp Ile Arg
 380 385 390

Pro	Ala	Ala	Arg	Cys	Pro	Arg	His	Gly	Arg	Pro	Leu	Glu	Leu	Phe
				95					100					105
Cys	Arg	Thr	Glu	Gly	Arg	Cys	Val	Cys	Ser	Val	Cys	Thr	Val	Arg
				110					115					120
Glu	Cys	Arg	Leu	His	Glu	Arg	Ala	Leu	Leu	Asp	Ala	Glu	Arg	Leu
				125					130					135
Lys	Arg	Glu	Ala	Gln	Leu	Arg	Ala	Ser	Leu	Glu	Val	Thr	Gln	Gln
				140					145					150
Gln	Ala	Thr	Gln	Ala	Glu	Gly	Gln	Leu	Leu	Glu	Leu	Arg	Lys	Gln
				155					160					165
Ser	Ser	Gln	Ile	Gln	Asn	Ser	Ala	Cys	Ile	Leu	Ala	Ser	Trp	Val
				170					175					180
Ser	Gly	Lys	Phe	Ser	Ser	Leu	Leu	Gln	Ala	Leu	Glu	Ile	Gln	His
				185					190					195
Thr	Thr	Ala	Leu	Arg	Ser	Ile	Glu	Val	Ala	Lys	Thr	Gln	Ala	Leu
				200					205					210
Ala	Gln	Ala	Arg	Asp	Glu	Glu	Gln	Arg	Leu	Arg	Val	His	Leu	Glu
				215					220					225
Ala	Val	Ala	Arg	His	Gly	Cys	Arg	Ile	Arg	Glu	Leu	Leu	Glu	Gln
				230					235					240
Val	Asp	Glu	Gln	Thr	Phe	Leu	Gln	Glu	Ser	Gln	Leu	Leu	Gln	Pro
				245					250					255
Pro	Gly	Pro	Leu	Gly	Pro	Leu	Thr	Pro	Leu	Gln	Trp	Asp	Glu	Asp
				260					265					270
Gln	Gln	Leu	Gly	Asp	Leu	Lys	Gln	Leu	Leu	Ser	Arg	Leu	Cys	Gly
				275					280					285
Leu	Leu	Leu	Glu	Glu	Gly	Ser	His	Pro	Gly	Ala	Pro	Ala	Lys	Pro
				290					295					300
Val	Asp	Leu	Ala	Pro	Val	Asp	Tyr	Arg	Asn	Leu	Thr	Phe	Asp	Pro
				305					310					315
Val	Ser	Ala	Asn	Arg	His	Phe	Tyr	Leu	Ser	Arg	Gln	Asp	Gln	Gln
				320					325					330
Val	Lys	His	Cys	Arg	Gln	Ser	Arg	Gly	Pro	Gly	Gly	Pro	Gly	Ser
				335					340					345
Phe	Glu	Leu	Trp	Gln	Val	Gln	Cys	Ala	Gln	Ser	Phe	Gln	Ala	Gly
				350					355					360
His	His	Tyr	Trp	Glu	Val	Arg	Ala	Ser	Asp	His	Ser	Val	Thr	Leu
				365					370					375
Gly	Val	Ser	Tyr	Pro	Gln	Leu	Pro	Arg	Cys	Arg	Leu	Gly	Pro	His
				380					385					390
Thr	Asp	Asn	Ile	Gly	Arg	Gly	Pro	Cys	Ser	Trp	Gly	Leu	Cys	Val
				395					400					405
Gln	Glu	Asp	Ser	Leu	Gln	Ala	Trp	His	Asn	Gly	Glu	Ala	Gln	Arg
				410					415					420
Leu	Pro	Gly	Val	Ser	Gly	Arg	Leu	Leu	Gly	Met	Asp	Leu	Asp	Leu
				425					430					435
Ala	Ser	Gly	Cys	Leu	Thr	Phe	Tyr	Ser	Leu	Glu	Pro	Gln	Thr	Gln
				440					445					450
Pro	Leu	Tyr	Thr	Phe	His	Ala	Leu	Phe	Asn	Gln	Pro	Leu	Thr	Pro
				455					460					465
Val	Phe	Trp	Leu	Leu	Glu	Gly	Arg	Thr	Leu	Thr	Leu	Cys	His	Gln
				470					475					480
Pro	Gly	Ala	Val	Phe	Pro	Leu	Gly	Pro	Gln	Glu	Glu	Val	Leu	Ser
				485					490					495

<210> 81

<211> 1146

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1417062CB1

<400> 81

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gcggggttttc cagtgttact tgcggctggg cgtggggggac tagctgcctt tctggcagca 120
ggcaggaagc cgcaaaaagt ttctgagccc ccgaacctgt agcggacgtg gaaaaagaac 180
gcccctcctc aagtgtcttg ctgaaagatg ccacccaggg aagggaactc gggctagcta 240
aggaggccat tcttgatggt cttcttagat ctcattgtcat caccgagccc tcagctgctg 300
gtggcagctg ctcagcagac ccttggcatg ggaaagagac ggagtccacc ccaagccatc 360
tgccttcact tagctggaga ggtgctggct gtggcccggg gactgaagcc agctgtgctc 420
tatgattgca actgtgcagg ggcacagag ctccagagct atctggagga gctgaagggg 480
cttggcttcc tgacttttgg acttcacatc cttgagattg gagaaaacag cctgattgtc 540
agtcctggag atctatgtca gcacttggag cagggtgctgc ttggtaccat agcctttgtg 600
gatgtttcca gctgccagcg tcacccttct gtctgctccc tggaccagct tcaggacttg 660
aaggccctcg tggctgagat catcacacat ttgcaggggc tgcagaggga cttatctcta 720
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gctctgactc cactacagat attcactgcc cggatctcat gggtgctagg tcaaccccca 900
atcctgctct attcttttag tgtcccagag agtttgttcc caggcctgag ggacattcta 960
aacacctggg agaaggacct cagaacccga tttaggactc agaatgactt tgcctgatctc 1020
agcatctcct ctgagatagt cacactgccg gctgtggccc tctgacttta actctcctcc 1080
catatagaag gtactcagta aatgatcatc tctagggttg ggatggcaaa taatcatctc 1140
aactgc 1146

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<210> 82

<211> 1043

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2007701CB1

<400> 82

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gggaaccgga aataccaaag gattatctcc aatattccag ggccttcttt ctcattctctg 120
tctttaccat acttactggc cttggctggc tcttcagctc ttggatcctt aatcgaggaa 180
gcatgaccac caacttggat ctgaaggat ccattgctcag cttcatctca gctacctgct 240
tgctcctctg cctcaacctg tttgtggcac aggttcaactg gcatactagg gatgccatgg 300
agtcagatct cctatggacc tattatctta actggtgcag tgacatcttt tacatgtttg 360
ctgggatcat ctctcttctc aactacttaa cttccagatc gcctgcctgt gatgaaaacg 420
tcactgtgat tccaacagag agatcaaggc tgggggttg tccggtgact acagtatcac 480
ctgctaaaaga tgaagggcca aggtctgaga tggaaatctc aagtgtgaga gagaaaaatt 540
taccaaagtc aggactgttg tggatgagg aaaacctaac tatagcttgt cttaaaagca 600
ggggagaagc tgagttggga atggtcacat aaattctggg aaactctcct aatatcatgt 660
ccatattact tgaggagaca gcattaaagc tgatgaaatg tcttttgcgt gcattggatc 720
caaaatatat atgatagtc taaagtaaat aactcactta agaaaaacat ttctaaaaga 780
aaacaacaat gtttagagtc atgaatgaaa gaaactagtg aaagatgcag tgtgtagacc 840
agagacctct ttgggtatca gggatctcat ggaccagaat ggcccgtgga gaagaatgtt 900
aattacttct gtttggaaat ttctttatta tgtgtggctt tgggtatact caggatggaa 960
agcacttgga caaatactgt tgaatctgaa cttaatagca ttaccagaaa tggataaat 1020
atcaatggat ataagacctt aaa 1043

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<210> 83

<211> 1684

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2915695CB1

<400> 83

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ttacattgac atgggggtctc actatgttgc ccagggtggg ctcaaaactcc tgggctcaag 120
caatcctccc accttggcct cgcaaagtgc taggattaca agggtagacc atctcacctg 180
gcctgttcat caatgtgtat agtatttaat tacattatga attacaataa cacatacaac 240
gggcatagac acacttgata ttaaatacaca atggactctg ggtaagcaag ggcttagctg 300
gggaagtggg actgcacagc attctagaaa gtgctcactg cctgggtttg attcccagct 360
tctctacata ctagtattgt gacctgggaa ttcagattac tgaagctttg tgccttattt 420
tcctcatttg cgaaagggga taatagcacc tcatatattt gttgtgagga ttagaggaga 480

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atacacttgt gaagcaccta gaataggggtg gggcatgagc taagcaccta gaataggggtg 540
gggcatgagc taagcaccta gaataggggtg gggcatgagc taagcaccta gaataggggtg 600
gggcctgagc taagcaccta gaataggggtg gggcatgagc taagtacttg ggaaatgtta 660
catatcacat cactgttcct gtggctgctg gcaggagctg tcctacaggc tacaggccac 720
agcctaggcc tgcgcccagc atccccctgtg ttccacagag aagtaagggtg cattgggttg 780
gtaagatgcc tcttctgtag tattatatcc tcatttctca tgtgcaaaaa tggacgtctg 840
gagacagtca gtgactccaa agctacttga ccacgaagtc agtttttaga actgccaggc 900
ccctagcaat cgtaagattt ggattcagaa agacagggaa tttgccatcc attttccttt 960
tttcttttac ctactgagtc caaaaatccc aaggagggaac aaacagaacc tctcagggcc 1020
gagcctgcaa agcccttggc cagcctcctc aggagtccac tggctgcact gtgttccaca 1080
tccctgcagg gctgagcaac tgggaagagg cttgggtccc aggacccct agtgtgtgctg 1140
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gcagatgccc gactccctgg gtctcctctg gcggctcctg ctgaggcttt ccctgggcca 1260
cctggatgac ctattggctt gagggccatt gggtagcaag atgctagggt actccgctct 1320
gggagggcct ggacctacaa atggaagatg ggccctgggt cctggaccta gatggaggct 1380
ttgccgagga ctgtccctct gcagggcgtg tgcttggtaa acgtggggca actagaagct 1440
agatgggtgc aatgattcac tgtgcctgga aggaacacac ctgaaaagga gacatcggtg 1500
aattcagggtc agctcaacaa gtagcaaaaga actctgctcc ctgagttgca agtctttgtg 1560
ggagatgcta ttgagtagtg agctgggggt taccacagc acccagcgt gtgttgggca 1620
cagagtaggc tttcagcaaa accctgggggt ccaagatgca aagttctaga agttaggaaa 1680
gcca 1684

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<210> 84

<211> 1584

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2969449CB1

<400> 84

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agggccaac gtctatgggt caaacctcag ctccctcaat gtggagcaca gtgacttaat 180
ttccccaact gtcagactca tgcacctgta gggggatgaa accaaaggga cccacctcat 240
caggagaatg aaatgggaca gccccttagc ttagtccctg gcagctggca agcactgtct 300
aagtgttccc ttttattatc atatttaagt acaggataga gggggatttc tcagcctcag 360
cactactgac atgttgggtg agatcatttt tcatgggggtg tggaggcctg tcctgtgcat 420
agcaggatgg gcagcagcat ccctgacctc tgcccactcc ctccctccca ggctatgaca 480
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aacattgata cgcaacagcc agatctctat tgcctatgag tctaaatgac ttacaattct 600
atcatcctgt gacttccgtg aggcacaatg tggcatgtcc aagaattcta agtgccgctt 660
ctatcaaact agctcctcct gtgttcccac ttcgggtgtcc acagctaggt gcccaaggca 720
ggatgttggg agcccccctg actcttctc tccctcacct ttacttgac ccagctctcc 780
ctgggtgggg catccgttct caggcgtaa atgtgtcct cgtgctgaga catccagatt 840
cactgctccc ctgacctcca gacctgcggg aagtcacact cccatctgcc tacacctct 900
gctctcaggt gagggcaact ccactctctg gttactcaag ttgaaaccgg acacatcctt 960
gctccactct ctctcacctc tctatccat tccctcagc aaattctagt agcttctcct 1020
tcagaacata gctgcaatct ggtcacttct cactgctcac ctggtctggg ccaccaccac 1080
tctcatcta gagtgtgta cagtctccag gctccttctt ttatcccgac aatctattct 1140
cagttgagca gccacagaga cctggtagag gcttgaacca gctccccaac ccctgtctca 1200
catccccag caggccctc ttggcaaagg cctcgcagtg agcctgaagg cccctcacc 1260
ctactcctgc gacgtcatct ctggctcccc tcccctttgc ttttgccagt tctcaagcac 1320
accggcatg ctctgtctc acgggtttttg gacctgtgt tcccttgctc ctgctgtggc 1380
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<223> Incyte ID No: 2994102CB1

<400> 85

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<400> 88

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<211> 1710

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<213> Homo sapiens

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<223> Incyte ID No: 60129797CB1

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<210> 91
 <211> 753
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 6246243CB1

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<400> 91
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tggcagtgag aagagtgttt ccagtaaaga aaagaattca aagaacactc agtatgaaaa 480
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ccccagaccc cctgcgcagg agaggagcct gctagaacct ccacccacca gcctccggaa 660
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<210> 92
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 <213> Homo sapiens

<220>
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<400> 92
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<210> 93
 <211> 580
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 6856852CB1

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<210> 94
 <211> 731
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 7482027CB1

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<400> 94
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<210> 95
 <211> 2758
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 7493507CB1

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<400> 95
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ctctgccgat gggaaaagcg attatggcct gcgaaggttt tggcccgaac cgcgacttca 180
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<210> 96

<211> 1383

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3075994CB1

<400> 96

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<210> 97

<211> 826

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2378119CB1

<400> 97

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<210> 98

<211> 1025

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2987418CB1

<400> 98

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<210> 99

<211> 1223

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4223862CB1

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<210> 100
<211> 549
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6046406CB1

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<210> 101
<211> 520
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6743529CB1

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<211> 950

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7283809CB1

<400> 102

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<210> 103

<211> 913

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7637563CB1

<400> 103

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<210> 104

<211> 640

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7663814CB1

<400> 104

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gatgagttaa ccgcatgctt tcaccttgcc ctctgcagct ggctgcaccc ctctctctct 180
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ccttccatac ctggctatct atgttagaaa actgtggcaa aacggacgga tggagctgca 600
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<210> 105

<211> 1113

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 8001939CB1

<400> 105

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<210> 106

<211> 933

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 8191019CB1

<400> 106

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attaagttcg ggaaaaggca ggagggcagg ctgggcgtaa gtctccatt ccgtgtgtgg 840

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<210> 107
<211> 1280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 919788CB1

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ttaaagtagt gagtttgatc ttggccttga tctaaacctt ttgatcttga aagaaggatg 240
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<210> 108
<211> 697
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4758058CB1

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<210> 109
<211> 723
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7499835CB1

<400> 109

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aaa 723

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<210> 110

<211> 1049

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2484647CB1

<400> 110

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<210> 111

<211> 360

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2587034CB1

<400> 111

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<210> 112

<211> 1466

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2702991CB1

<400> 112
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<210> 113
 <211> 1724
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2744736CB1

<400> 113
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<210> 114

<211> 778

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2915475CB1

<400> 114

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<210> 115

<211> 1974

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3040427CB1

<400> 115

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<210> 116
 <211> 990
 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

<220>
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<223> Incyte ID No: 7280438CB1

<400> 118

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<210> 119

<211> 2026

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 7499809CB1

<400> 119

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 <211> 2169
 <212> DNA
 <213> Homo sapiens

<220>
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 <213> Homo sapiens

<220>
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<210> 122

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<212> DNA

<213> Homo sapiens

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<210> 123

<211> 1924

<212> DNA

<213> Homo sapiens

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tgcatttcag gtaaaattga aaaacaggac aattattatg tccaattaat atgtttatgt 1620
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cctcttcctc ctttttccta ttaacccttg gtactgttgc taaataatga tagccatttt 1860
ataattatgt tatatacatt ttcagccttt agcatttctg cttttcaaaa attgaatctc 1920
cttg                                     1924

```

<210> 124

<211> 559

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7500104CB1

<400> 124

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gtgacaccag agcctcctgc aagatgcttc tgattctgct gtcagtggcc ctgctggcct 60
tcagctcagc tcaggattta aatgaagatg gaggagactc tgagcagttc atagatgagg 120
agcgtcaggg accacctttg ggaggacagc aatctcaacc ctctgctggt gatgggaacc 180
aggatgatgg ccctcagcag ggaccacccc aacaaggagg ccagcagcaa caagggtccac 240
cacctcctca gggaaagcca caaggaccac cccaacaggg aggccatccc cctcctcctc 300
aaggaaggcc acaaggacca ccccaacagg gaggccatcc ccgtcctcct cgaggaaggc 360
cacaaggacc accccaacag ggaggccatc agcaagggtc tccccacct cctcctggaa 420
agccccaggg accacctccc caagggggcc gccacaagg acctccacag gggcagttct 480
ctcagtaatc taggattcaa tgacaggaag tgaataagaa gataacagtg tttcaaatgc 540
cgtgaaacat ggcattcatg                                     559

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<210> 125

<211> 653

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7500203CB1

<400> 125

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ccagacaaag cataccagat ctcaccagag agtcctaggg gactacagaa ggaaaaagac 60
aagaggcagt aggatatctg tgtgtcctcc cgctgaccac acttccttta gtgacccgat 120
tgcctcctca agtcgcagac actatgtctc ctcccatggc cctgcccagt gtgtcctgga 180
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tgccctctcc acggatcagc tgtcccaaag gctccaaggc ctatggctcc ccctgctatg 300
ccttggtttt gtcacaaaaa tcctggatgg atgcagatgg ctctgagcct gatggagatg 360
gatgggagtg gagtagcact gatgtgatga attactttgc atgggagaaa aatccctcca 420
ccatcttaaa ccctggccac tgtgggagcc tgtcaagaag cacaggattt ctgaagtgga 480
aagattataa ctgtgatgca aagttaccct atgtctgcaa gttcaaggac tagggcaggt 540
gggaagttag cagcctgagc ttggcgtgca gctcatcatg gacatgagac cagtgtgaag 600
actcaccctg gaagagaata ttctcccaaa actgccctac ctgactacct tgt                                     653

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<210> 126

<211> 1649

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4843802CB1

<400> 126

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gtcaacgttt cactgcccc aacccgtctc agggtaaacac ttgacctaca gtgtcaagat 60
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ttccacagcc cggccccagg cccaggtcat ggtgcttaga ggaggagcct cagctgagaa 180
tgaagggtgc cagggatgct tctccatccc tgtcatgggc agctgctgcg gttggatctg 240
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agatcccccg gcccttcccc acatgttcaa cctcttggcc tctgggctgc tttctccacc 360
tggaacattc ttctccaga aagccacgtg gctcactctc tgacttctc caggaagtga 420
gcttactaac cgggcccgtc ctgaccactc aggataaaaag tgtgcacgcc ctgtcccttc 480
ctcccccaac tctgccccgt ccttctgac tccccgcaca ctgctggtaa ctctcttacc 540
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ggcagatgaaa tactcagaga tccggggccg gtcccccccc aaaagggggg acgcggtata 1500
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tacaacagca caacgacgc cgagacacgc acaaacagaa agagcccgga agaattggaga 1620
accaccaggg ccaagaacgc acgacaaaag

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<210> 127

<211> 1255

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5877522CB1

<400> 127

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ctggccttaa tatataacca ccatcagaat gattgcatta atacattggt ggtttttttt 60
ttattcaatg aagtactttt aagcccgtgg ctcatattgga attgaagata taagacgaca 120
ataataacca tcccttcccc atggccagtc actatcctga ctttgggtatt tgtcattccc 180
atgcatgttt tcacacattt acaacatatg tatccaaata agcaatatgt ggtgcttttt 240
atgaggtttt gaagtgccgt ggtttgccac ggttactacg ggaactgaatg aaggaggatg 300
aacgcagaaa tgaaaactta aaagaaactg ttttaaaaga aggggtcggg ggaagaagaa 360
gaggactccc tgcttctact gagcaaaagc agcagctctg agcttctaca gccctttgta 420
tttactgggt agaaagagca gggaagagga ggtaattgatt ggtcagctgc ttaattgac 480
acaggttcac attattgcta acaggcttca gatgtacctc atcacaagaa aactgcgctt 540
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tatgtgatg ctgaagtctg tgcctctaac cactctggcc ttctgcttcc tgtaccaga 1200
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<210> 128

<211> 1021

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 617491CB1

<400> 128

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caccagtaca ctccagcctg ggcaaccgga gtgagaccct gtctcaaaaa aacatgaata 60
aataaataaa taaataaata aataaataaa taaataaata agaagagcct tccagagcag 120
tatggaatgg ccaatgcccc tcctccctgc tgctcctcct cctgtagctg tttccttctc 180
ccctctctcc ttgcttggaag cagccacagc gactctccaa atcatgacac tcaaaatgcc 240
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caaatatgca aagctactac cacacttgat tttgtaattt atcatgaggc cagcacacct 960
tttaaaaaat atatttaaaa aatataaaaa tttattttta aaataaaaaa aaaaaaaaaa 1020
g 1021

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<210> 129

<211> 1167

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6289901CB1

<400> 129

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acaaatccaa taacctataa cgctgagaaa tctaacagaa aatatcagtc ttcgtttaca 120
cgcaacacaa gaagagcaca gggccacac tgctgttggtg gcagagccaa aagtccaccc 180
tcctcctgct gaatgactgc aaagctgggc tcttcaactcc cagatgacag tgtttctcct 240
cactcacatt caccacacca cacagagcag aaagcaggaa ggtttccatg cccgcaactga 300
cggtaagtgg tgggaggcag tcgggcaaca tttctggagt tcctatgaat gatgtgctat 360
gctttttggc ctgagacagt tcaggtggac tcagatctga gacatattca aaagtatggt 420
tgcatcctgg cccttggttt atgtatttcc tcttccctag ggcattctac aaagcatttc 480
caaaaaggct ggtccctgcc ccttaactgg ttcctcctcc tggcaacagc attccagctg 540
gactttggga aatctcccta ctccctcaaa acaattggtt ctccctggc ttcttttcag 600
gtttcctatg agtctatgag gtcaactccac ccaatgtctt ccaaggaact gattatgctc 660
aggttagctg gtgacctcag aactctgacc agtataatga actgtgacag aaaggaatgc 720
atcctgttga ccaatcccc tgcaagtatg cacagacaac aggggtacta caaagctcca 780
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gtcaacatgg tgaaaccca tctctactaa aaatacaaaa attagccaag cgtggttagca 1080
ggcgtctgta atcccagcta ctccaaggc tgaggcatga gaatcacttg aacatgggag 1140
gtggagggtg cgagtgagcc gágatca 1167

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<210> 130

<211> 1045

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6817709CB1

<400> 130

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aatggtataa aaacaaacaa caaccaccac caccagcacc aaaaaaaac agagctggga 60
tcacacacac ctgggttcaa tccctgggtt catctctgcc cttaactaaa ccagctgtgt 120
gactttgggc aagtgaactga actctctgaa actccatttc gtcacatgcatg ctggggatgg 180
ctaacagtag tccttacctc acagagacac tacgaggatt aaatgatgaa atgcatggca 240
catgaccaac ctagagtaag tgtctgaatg tgcggtgatt ctatcagtca ggacattgtt 300
ggttgctagt atcagaaacc cagctcaaac tggcttagag cagaagaggg cgccccctagc 360
caaaaaatct gcagtcacatc gattggccac cctagtatct agagttggag tgaggtcgat 420
ccactagctg gcggaaagcg agatctccca aggaaaactg gagcatagta gccagaaaaa 480
gagggatgga tactgggcag gcagaaacag cagggtgccc catgactaac tgtaggtggg 540
aggtgtagaa aggcagaggc cttcaccacg gcccaacgct gagggagggt gtgctcagcc 600
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tcaggggagg cctggcaga agagcccaag aaagggtttt ctgccctgac cctgactgac 720
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cacacctgca atcccagcag tccactgtgc acacagtggc ctgagcactc ctaccatgtc 960
tctgtcttaa accttcaata aggtctcatt gcattcagag taaaatgggt aaagaaaaat 1020
caaacaatag gatctcccca ccccc 1045

```

<210> 131

<211> 762

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6849312CB1

<400> 131

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attccattga gtatatgtac cacatttctt tatccattca tctgctgatg gatacttagg 60
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tttatgtagt aaaatatatt tatattttct tttattatgt ctaaaatttta gtcatagttg 180
gagagacttt cattgcactg aggttagaga ggaagacact catgttttct gcaattatgc 240
atatacagtt gatcctcatt tttttgtaga cttggtgttt gtatgtttac ctccttgcga 300
gagtttattt gtaacaccca aattaatgat cttgttgggt tcatggtcac ttgcagacat 360
gtgcagagca gtaaaatatg gagtcaccaa tgtgcatgtt cccatctgaa gctgaataag 420
gtgatctcta ccttcttgtt tcagctgtca tattgtaaac aagtgttctt tttgtcgggg 480
atgccacctc ttccaaaaca catggtctga gagtgggag gaatagtttt ccaaaagaaa 540
tagggatata caaatactac atgttctcac ttctaagtga gagctaaaca tcgggtattc 600
atggacataa agatgggagc agtagacact ggggaacatt acagggggaa gttagagggt 660
gggcaagggt tgaaaaacta actactgggt gccatgctca ctatctgcat gatgggatta 720
tttgtattct aaacctcagc atcacgcaat atacccttgt aa 762

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<210> 132

<211> 1550

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7409581CB1

<400> 132

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tggtggaaca ggcaggcggt atgctttctc taagccacac aggcgttgca cttgcacatt 60
gtagaaaatt ctccatggga ccatattctc tctccccata cagctccttt ttctggaagc 120
tacaggtaac agagctgaat tcatgctctt actctcaaat ctctagcct tccagacatc 180
tccctctttt ttttttggga cagagtctca ctctgtcaac ccaggctggg gtgcagtggg 240
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cacctatctc ggccctccaa agtgcctggg ttacaggcgt gagccgcagc gcccgccctc 480
cagacatccc ctgtcagaga tgtgcctcag ggctctccag ggaccagggg tcaaaggctc 540
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gatcaggagc cggggatcaa cgggtcctgg aaagccaggg atcaaaatcc ctgccgtcca 660
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cgcagcccat ctggtacctg tgggtcaggc tcttcttctg ggtggtgctc aggggtgtccc 780
agggcacgat gaagtcacag aggggtgatgt gcatcttgcc gtccccctcg gcctttctctg 840

```

```

cggagagacg gggatcacgc agctcagggg gagggaaaag tcctcctcct gccagctcc 900
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<210> 133

<211> 2803

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7437113CB1

<400> 133

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agccagcgcg ccatggcgga cccggagggtg tgctgcttca tcacaaaat cctgtgcgcc 60
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ctctgtgagg tgctgcaggt ggccggggccc gaccgctttg tgggtgttga gaccggcggc 180
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ctcctcctcc aaagtgatcc tttttttatg cccgagatat gcaaaagtta taaggagag 480
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<210> 134
 <211> 627
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 7500260CB1

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 gggcatttgg ggcgcctgaa cccaagacct ctggatggcc ctgtgccctg gtggcagccc 180
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 <213> Homo sapiens

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<210> 136

<211> 957

<212> DNA

<213> Homo sapiens

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<400> 136

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<210> 137

<211> 1731

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7499672CB1

<400> 137

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<210> 138

<211> 695

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 7500276CB1

<400> 138

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<210> 139

<211> 1468

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1440723CB1

<400> 139

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<210> 140
 <211> 708
 <212> DNA
 <213> Homo sapiens

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 <221> misc_feature
 <223> Incyte ID No: 7479612CB1

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 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1391514CB1

<400> 141
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<212> DNA
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<220>
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<211> 2870
<212> DNA
<213> Homo sapiens

<220>
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<210> 151

<211> 1852

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501159CB1

<400> 151

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<210> 152

<211> 2057

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501932CB1

<400> 152

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2057

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<210> 153

<211> 1848

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501111CB1

<220>

<221> unsure

<222> 1800, 1806-1807
 <223> a, t, c, g, or other

<400> 153

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<210> 154
 <211> 1616
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7501113CB1

<220>
 <221> unsure
 <222> 1568, 1574-1575
 <223> a, t, c, g, or other

<400> 154

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<210> 155

<211> 1568

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501118CB1

<220>

<221> unsure

<222> 1520, 1526-1527

<223> a, t, c, g, or other

<400> 155

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tccccct 1568

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<210> 156

<211> 1799

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501128CB1

<400> 156

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<210> 157

<211> 3395

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501920CB1

<400> 157

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